

H2080MW8 HDD & DVD Player / Recorder with Digital Tuner



THANK YOU FOR CHOOSING MAGNAVOX.

NEED HELP FAST?

Read your Quick Guide and/or Owner's Manual first for quick tips that make using your Magnavox product more enjoyable. If you have read your instructions and still need assistance, you may access our online help at http://www.funai-corp.com or call **1-800-605-8610** while with your product.

INSTRUCCIONES EN ESPAÑOL INCLUIDAS.



Others

españo

PRECAUTIONS

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS

WARNING:



APPLIANCE TO RAIN OR MOISTURE.

CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

The caution marking is located on the rear of the cabinet.

Laser Safety

This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

CAUTION: USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

CAUTION: VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK DEFEATED. DO NOT STARE INTO BEAM.

LOCATION: INSIDE, NEAR THE DECK MECHANISM.

FCC WARNING- This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

RADIO-TV INTERFERENCE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1) Reorient or relocate the receiving antenna.

2) Increase the separation between the equipment and receiver.

3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

4) Consult the dealer or an experienced radio/TV technician for help.

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION: POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

A NOTE ABOUT RECYCLING

This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with your local recycling regulations.

Batteries should never be thrown away or incinerated but disposed of in accordance with your local regulations concerning chemical wastes.

Make your contribution to the environment!!!

• Used up batteries do not belong in the dust bin.

• You can dispose of them at a collection point for used up batteries or special waste. Contact your council for details.

For Customer Use:

Read carefully the information located at the back of this unit and enter below the Model No. and Serial No. Retain this information for future reference.

Model No. _ Serial No.

Important Safeguards

- 1. Read Instructions All the safety and operating instructions should be read before the appliance is operated.
- 2. Retain Instructions- The safety and operating instructions should be retained for future reference.
- 3. Heed Warnings All warnings on the appliance and in the operating instructions should be adhered to.
- Follow Instructions All operating and use instructions should be followed.
- 5. Cleaning Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

EXCEPTION: A product that is meant for uninterrupted service and, that for some specific reason, such as the possibility of the loss of an authorization code for a CATV converter, is not intended to be unplugged by the user for cleaning or any other purpose, may exclude the reference to unplugging the appliance in the cleaning description otherwise required in item 5.

- 6. Attachments Do not use attachments not recommended by the product manufacturer as they may cause hazards.
- Water and Moisture- Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.
- Accessories Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or PORTABLE CART WARNING

recommended by the manufacturer, or sold with the product. Any mounting of the appliance should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance

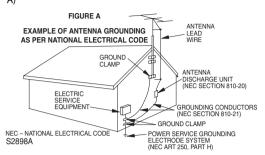


(Symbol provided by RETAC)

uneven surfaces may cause the appliance and cart combination to overturn.

- 9. Ventilation Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
- 10. Power Sources This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
- 11. Grounding or Polarization This product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- 12. Power Cord Protection Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
- 13. Outdoor Antenna Grounding If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA No. 70, provides

information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. (Fig. A)



- 14. Lightning For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
- 15. Power Lines An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- Overloading Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
- 17. Object and Liquid Entry Never push objects of any kind into this product through any openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- Servicing Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- Damage Requiring Service Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
- a. When the power-supply cord or plug is damaged.
- b. If liquid has been spilled, or objects have fallen into the product.
- c. If the product has been exposed to rain or water.
- d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- e. If the product has been dropped or damaged in any way.f. When the product exhibits a distinct change in performance
- this indicates a need for service.
 Replacement Parts When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
- Safety Check Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
- Heat This product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

Function Setup

Españo

PRECAUTIONS

Installation Location

For safety and optimum performance of this unit:

- Install the unit in a horizontal and stable position. Do not place anything directly on top of the unit. Do not place the unit directly on top of the TV.
- Shield it from direct sunlight and keep it away from devices of intense heat. Avoid dusty or humid places. Avoid places with insufficient ventilation for proper heat dissipation. Do not block the ventilation holes on the sides of the unit. Avoid locations subject to strong vibration or strong magnetic fields.

Avoid the Hazards of Electrical Shock and Fire

- Do not handle the power cord with wet hands.
- Do not pull on the power cord when disconnecting it from AC outlet. Grasp it by the plug.
- If, by accident, water is spilled on this unit, unplug the power cord immediately and take the unit to our Authorized Service Center for servicing.

Moisture Condensation Warning

Moisture condensation may occur inside the unit when it is moved from a cold place to a warm place or after heating a cold room or under conditions of high humidity. Do not use this unit at least for 2 hours until its inside gets dry.

About Copyright

Unauthorized copying, broadcasting, public performance and lending of discs are prohibited.

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

Notice for Progressive Scan Output

Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. In case of picture problems with 525 (480) progressive scan output, it is recommended that the user switch the connection to the 'standard definition' output. If there are questions regarding your TV set compatibility with this 525p (480p) DVD player, please contact our customer service center.

Supplied Accessories

remote control (NB504UD) with batteries (AAAx2)



RF coaxial cable (WPZ0901TM002)



RCA audio/video cables (WPZ0102TM015/WPZ0102LTE01)



owner's manual (1VMN23645)



quick guide (1VMN23646)



Maintenance

Servicing

- Please refer to relevant topics on "TROUBLESHOOTING" on pages 105-108 before returning the product.
- If this unit becomes inoperative, do not try to correct the problem by yourself. There are no user-serviceable parts inside. Turn off, unplug the power plug and please call our help line mentioned on the front page to locate an Authorized Service Center.

Cleaning the cabinet

• Use a soft cloth slightly moistened with a mild detergent solution. Do not use a solution containing alcohol, spirits, ammonia or abrasive.

Cleaning discs

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center to out. Do not wipe in a circular motion.
- Do not use solvents such as benzine, thinner, commercially available cleaners, detergent, abrasive cleaning agents or antistatic spray intended for analog records.

Cleaning the disc lens

 If this unit still does not perform properly although you refer to the relevant sections and to "TROUBLESHOOTING" in this owner's manual, the laser optical pickup unit may be dirty. Consult your dealer or an Authorized Service Center for inspection and cleaning of the laser optical pickup unit.

Disc handling

- Handle the discs so that fingerprints and dust do not adhere to the surfaces of the discs.
- Always store the disc in its protective case when it is not used.

HDD handling

- HDD is a precision apparatus that is susceptible to vibration, strong impact or dirt. Depending on the installation environment or handling, the unit may become partially damaged or in the worst case, recording or replaying may not be available. Especially while the HDD is in motion, do not subject it to vibration or strong impact or pull out the power plug. And if a power failure occurs, the content of the recording / replaying program may be lost.
- HDD rotates at high speed when in operation. Be sure that rotation has stopped and then move the unit without subjecting it to strong impact or vibration.

IR signal check

If the remote control does not work properly, you can test if the remote control sends out the infrared signal with AM radio or a digital camera (including built-in camera of cellular phone). It will help to define the cause of malfunction.

• With an AM radio:

Tune an AM radio to a station with no broadcasting. Press a button on remote control toward the radio. Sound will be fluttering when you press any key and the radio receives the signal. This means the remote control is working.

 With a digital camera (including built-in camera of cellular phone):
 Direct a digital camera to remote control.

press and hold a button on remote control, If infrared light appears through digital camera, the remote control is working.





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Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

Dolby Digital Recording

"Dolby® Digital Recording enables consumers to record high-quality video with stereo sound on recordable DVD discs. The technology, when utilized instead of PCM recording, also saves recordable disc space, allowing for higher video resolution or extended recording time on each DVD. DVDs created using Dolby Digital Recording will play back on all DVD-video players."

Note: This is true when the players are compatible with actual recordable DVD discs.

Connections

Basic Setup

Recording

Playback

Editing

Function Setup

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Others

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ATURES

This unit not only plays back the contents on internal HDD, DVD, or CD, but also offers features for you to record on HDD or DVD and edit them after that. The following features are offered with this unit.

Recordina

This unit allows you to record on the HDD, a DVD+RW/-RW (rewritable) and a DVD+R/-R (one-time write). You can choose any one for your convenience. Even if you choose DVD-RW/-R, these discs will automatically be recorded in the DVD+VR mode.

Up to 36 program recording:

DVD HDD

HDD

DVD

You can program the unit to record up to 36 programs within a one-month period. Daily or weekly program recordings are also available.

One-touch timer recording (OTR):

You can easily set a recording time as you prefer. Every time **[REC •]** is pressed during recording, the recording time will be increased by 30 minutes up to 6 hours. The recording automatically stops when the recording time you set is reached or the disc is full.

Automatic chapter mark setting:

Chapter marks will be put on recordings as you set before attempting to record.

Automatic title list making:

The unit makes a title list with the index automatically.

80 GB hard disc:

This unit is equipped with a 80GB hard disc which allows you to record up to 90 hours (with SLP mode).

Time shift recording:

With [TIME SHIFT] button, you can virtually pause and resume the live TV broadcast.

Alternate recording:

If there is no recordable disc in the unit, if the disc does not have enough space to complete the recording, or if the material is "copy-once" program and prohibited to be recorded on a DVD, the unit will detect it and automatically record to the HDD even when DVD is selected as the recording media.

This feature is available only for timer recording. Not available for one-touch timer recording.

Dubbing

With this unit, you can enjoy bi-directional dubbing between HDD and DVD.

> HDD DVD

High speed dubbing (HDD \rightarrow DVD only):

This feature offers you the dubbing speed of 12 times the SLP mode dubbing at the maximum.

Just dubbing (HDD \rightarrow DVD only):

When dubbing from HDD to DVD, if you set the recording mode to "Auto", the recording mode will automatically be adjusted so the titles will fit nicely in the remaining space of the disc.

Plavback

HDD DVD

Theater surround sound in your home: When connecting the unit to an amplifier or a decoder

which is compatible with Dolby Digital, you can experience the theater surround sound from discs with surround sound system.

Quick search for what you want to watch:

You can easily find the part you want to watch using the search functions. You can search for a desired point by title, chapter or time.

Virtual surround system:

You can enjoy stereophonic space through your existing 2 channel stereo system.

Variable skip:

You can skip forward a certain time, which is specified in "Playback" menu in advance, with one-touch while playback.

Variable replay:

You can skip back a certain time, which is specified in "Playback" menu in advance, with one-touch while playback.

Time shift playback:

You can play back a title being recorded from the beginning while recording continues.

DVD

DVD

HDD

Playing back MP3/JPEG/Kodak Picture CD files:

You can enjoy MP3/JPEG/Kodak Picture CD files which are recorded on CD-RW/-R.

HDD



Deleting a title:

You can delete a title which you do not need anymore.

Putting names on titles:

You can put your favorite names on titles.

Setting / clearing chapter marks:

You can set / clear chapter marks on titles. **Dividing titles:**

You can divide a title into 2 or more.

Deleting a scene of a title:

You can delete a scene from a title as you like.

Hiding chapters:

To keep others from playing back some chapters without permission, you can hide chapters.

Setting an Index Pictures:

You can change pictures for an index.

Putting name on disc:

You can put your favorite disc name.

HDD





Introduction

Basic Setup

Recording

Compatibility

Available for playing back discs on a regular DVD player:

Recorded discs can be played back on regular DVD players, including computer DVD drives compatible with DVD-video playback. Although DVD+R are playable on other units without finalization in most cases, it is recommended to finalize in order to stabilize the performance. For DVD-RW/-R, you need to finalize the recorded discs to play back on other DVD players.

Others

DVD HDD

Progressive scan system:

Unlike conventional interlace scanning, the progressive scan system provides less flickering and images in higher resolution than that of traditional television signals.

Symbols Used in this Owner's Manual

To specify for which media type each function is, we put the following symbols at the beginning of each item to operate.

- * DVD-RW/-R recorded in VR mode or non compatible recording format are not playable.
- * DVD-RW recorded in the mode other than +VR is not recordable on this unit unless you erase all contents in the disc (refer to page 90).
- * DVD-R recorded in the mode other than +VR is not recordable on this unit.

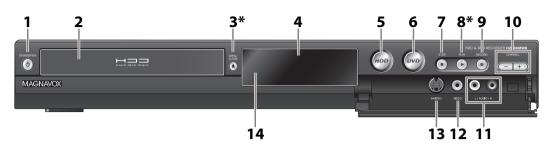
Symbol Description

For Recor	ding, Playing Back, and Editing		
HDD	Description refers to HDD		
	Description refers to DVD+RW		
	Description refers to DVD+R		
	Description refers to DVD-RW		
	Description refers to DVD-R		
For Playback only			
	Description refers to DVD-video		
© CD	Description refers to audio CD		
VCD	Description refers to video CD with PBC function		
WITHOUT PBC	Description refers to video CD without PBC function		
MP3	Description refers to CD-RW/-R with MP3 files		
JPEG	Description refers to CD-RW/-R with JPEG files, including Kodak Picture CD files		

If you do not find any of the symbols listed above under the function heading, the operation is applicable to all media.

FUNCTIONAL OVERVIEW

Front Panel



(*) The unit can also be turned on by pressing these buttons.

1. STANDBY-ON O button

Press to turn the unit on and off.

2. Disc tray

Place a disc when opening the disc tray.

3. OPEN/CLOSE
button*

Press to open or close the disc tray.

- 4. Display Refer to "Front Panel Display" on page 14.
- 5. HDD button

Press to select the HDD output mode.

- 6. DVD button
- Press to select the DVD output mode.

7. STOP ■ button Press to stop playback or recording.

8. PLAY ► button* Press to start or resume playback.

9. RECORD button

Press once to start a recording. Press repeatedly to start one-touch timer recording.

10. CHANNEL +/- buttons

Use to connect external device with a RCA audio cable.

- **11.AUDIO input jacks (E2)** Use to connect external device with a RCA audio
- cable. 12.VIDEO input jack (E2)

Use to connect external device with a RCA video cable.

13.S-VIDEO input jack (E2)

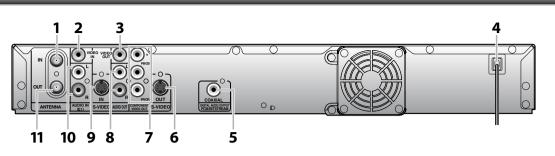
Use to connect the S-video output of external device with an S-video cable.

14. Infrared sensor window

Receive signals from your remote control so that you can control the unit from a distance.

FUNCTIONAL OVERVIEW

Rear Panel



1. ANTENNA IN jack

Use to connect an antenna.

2. VIDEO IN jack (E1)

Use to connect external device with a RCA video cable.

3. VIDEO OUT jack

Use to connect a TV monitor, AV receiver or other device with a RCA video cable.

4. AC Power Cord

Connect to a standard AC outlet to supply power to this unit.

5. DIGITAL AUDIO OUTPUT (COAXIAL) jack

Use to connect an AV receiver, Dolby Digital decoder or other device with a digital audio coaxial input jack with a digital audio coaxial cable.

6. S-VIDEO OUT jack

Use to connect the S-video input of a TV monitor, AV receiver or other device with an S-video cable.

7. COMPONENT VIDEO OUTPUT jacks

Use to connect a TV monitor with component video inputs with a component video cable.

8. AUDIO OUT jacks

Use to connect a TV monitor, AV receiver or other device with a RCA audio cable.

- **9. S-VIDEO IN jack (E1)** Use to connect the S-video output of external device with an S-video cable.
- **10.AUDIO IN jacks (E1)** Use to connect external device with a RCA audio cable.

11.ANTENNA OUT jack

Use to connect an RF coaxial cable to pass the signal from the ANTENNA IN to your TV.

Note

• Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the unit.

• This unit does not have the RF modulator.

Recording

Function Setup

Others

Español

Remote Control

Installing the Batteries in the Remote Control

Install the batteries (AAAx2) matching the polarity indicated inside battery compartment of the remote control.





Make sure to match + and - on the batteries to the marks indicated in the battery compartment.

Close the cover.



Note

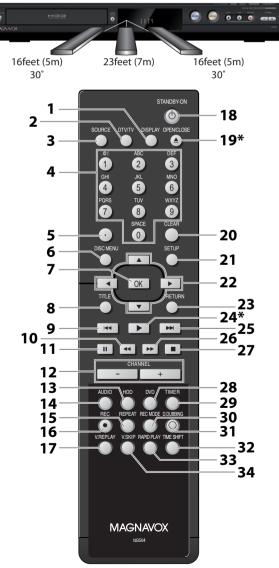
Incorrect use of batteries can result in hazards such as leakage and bursting. Please observe the following:

- Do not mix new and old batteries together.
- Do not use different kinds of batteries together. Although they may look similar, different batteries may have different voltages.
- Make sure that the + and ends of each battery match the indications in the battery compartment.
- Remove batteries from battery compartment that is not going to be used for a month or more.
- When disposing of used batteries, please comply with governmental regulations or environmental public instruction's rules that apply in your country or area.
- Do not recharge, short-circuit, heat, burn or disassemble batteries.

Using a Remote Control

Keep in mind the following when using the remote control:

- Make sure that there are no obstacles between the remote control and the infrared sensor window on the unit.
- Remote operation may become unreliable if strong sunlight or fluorescent light is shining on the infrared sensor window of the unit.
- Remote control for different devices can interfere with each other. Avoid using remote control for other device located close to the unit.
- Replace the batteries when you notice a fall off in the operating range of the remote control.
- The maximum operable ranges from the unit are as follows.
- Line of sight: approx. 23 feet (7m)
- Either side of the center: approx. 16 feet (5m) within 30°
- Above: approx. 16 feet (5m) within 15°
- Below: approx. 10 feet (3m) within 30°



12 EN

Editing

(*) The unit can also be turned on by pressing these buttons.

1. DISPLAY button

• Press to display the display menu on or off.

2. DTV/TV button

• Press to switch between digital TV (DTV) mode and analog TV (TV) mode.

3. SOURCE button

• Press to select the appropriate input.

4. Number/Character buttons

- Press to select channel numbers.
- Press to select a title/chapter/track/file on display.
- Press to enter values for the settings in the main menu.
- Press to enter title names.

5. Confirm (•) button

Analog mode:

• Press to confirm the channel selection made by [the Number buttons].

Digital mode:

• Press to confirm the major / minor channel selection made by [the Number buttons].

6. DISC MENU button

• Press to display the disc menu.

7. OK button

· Press to confirm or select menu items.

8. TITLE button

• Press to display the title list.

9. PREV | < button

- During playback, press to return to the beginning of the current chapter, track or file.
- When playback is in pause, press repeatedly to reverse the playback step by step.

10.REW

- During playback, press to fast reverse the playback.
- When playback is in pause, press to slow reverse the playback.

11.PAUSE || button

• Press to pause playback or recording.

12. CHANNEL +/- buttons

• Press to change the channel up and down.

13.HDD button

• Press to select the HDD output mode.

14. AUDIO button

- Press to switch the audio language for digital TV.
- Press to display the audio menu during playback.

15.REPEAT button

• Press to display the repeat menu.

16.REC button

- Press once to start a recording.
- Press repeatedly to start the one-touch timer recording.

17.V. REPLAY button

• Replays by the amount of time set in advance.

18. STANDBY-ON O button

• Press to turn the unit on and off.

19. OPEN/CLOSE button*

Press to open or close the disc tray.

20. CLEAR button

· Press to clear the information once entered, to clear the marker settings, or to cancel the programming for CD, etc.

21.SETUP button

- Press to display the main menu.
- During playback, press and hold for more than 3 seconds to switch the progressive scanning mode to the interlace mode.

22. Cursor $\blacktriangle / \checkmark / \checkmark / \blacklozenge$ buttons

• Press to select items or settings.

23.RETURN button

 Press to return to the previously displayed menu screen.

24.PLAY ► button*

Press to start playback or resume playback.

25.NEXT ►► | button

- During playback, press to skip to the next chapter, track or file.
- When playback is in pause, press repeatedly to forward the playback step by step.

26.FFW ►► button

- During playback, press to fast forward the playback.
- When playback is in pause, press to slow forward the playback.

27.STOP button

- Press to stop playback or recording.
- Press to exit from the title list.

28. DVD button

• Press to select the DVD output mode.

29.TIMER button

• Press to display the timer programming list.

30.REC MODE button

• Press to switch the recording mode.

31.D.DUBBING button

• During playback, press to start dubbing right away. • In stop mode, press to display "Dubbing" menu.

32. TIME SHIFT button (HDD)

· Press twice to time shift recording you are watching. Press it again to continue watching it.

33.RAPID PLAY button

• During playback, press to play back in a slightly faster/slower mode with keeping the audio quality.

34.V.SKIP button

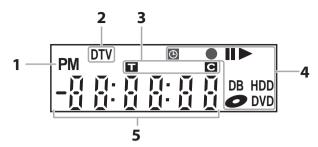
• Skips by the amount of time set in advance.

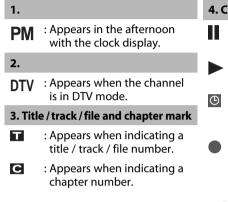
Españo

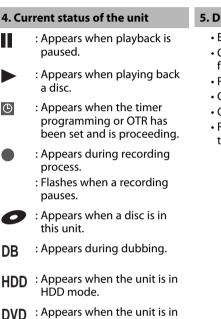
EN

FUNCTIONAL OVERVIEW

Front Panel Display





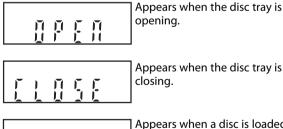


DVD mode.

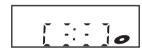
5. Displays the following

- Elapsed playback time
- Current title / chapter / track / file number
- Recording time / remaining time
- Clock
- Channel number
- Remaining time for one-touch timer recording

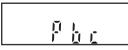
Display Message



Appears when the disc tray is



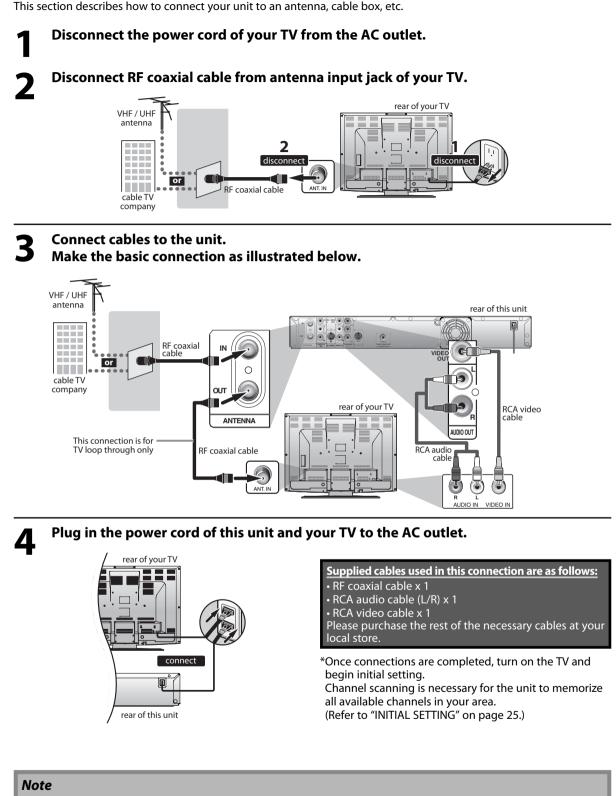
Appears when data is being written on a disc.



Appears when the PBC function is activated. (Video CD playback only. Refer to page 59.)

Appears when a disc is loaded on the disc tray.

ENNA CABLE CONNECTION



- For your safety and to avoid damage to the device, please unplug the RF coaxial cable from the ANTENNA IN jack before moving the unit.
- If you use an antenna to receive analog TV, it should also work for DTV reception. Outdoor or attic antennas will be more effective than set-top versions.
- Antenna out is for tuner pass through only. HDD/DVD playback through the RF is not possible.

EN 15 Introduction

Connection

Basic Setup

Recording

Playback

Editing

Function Setup

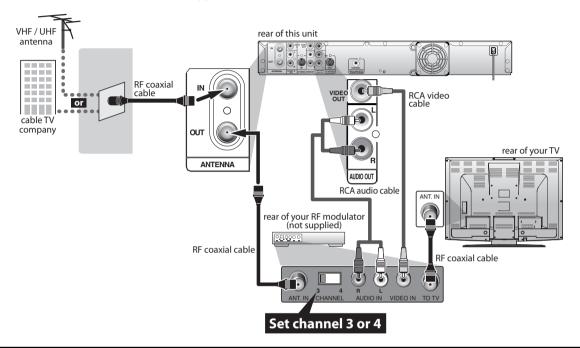
Others

Español

RF MODULATOR CONNECTION

If your TV has antenna in jack only, it is still possible to connect this unit to your TV by using a commercially available stereo audio/video RF modulator. In this case, follow the instructions below.

- 1) Disconnect the power cords of the devices from the AC outlet.
- 2) Make the connection as illustrated below.
- **3) Set your RF modulator's channel 3/4 switch to either 3 or 4**, whichever the TV channel is least used in your area. If your RF modulator has a modulator/antenna switch, set it according to the manual supplied with the RF modulator.
- 4) Plug in the power cords of the devices to the AC outlet.
- 5) Turn on your TV and choose the same channel as you set the RF modulator's channel 3/4 switch to. For more details, follow the manual supplied with the RF modulator.



Supplied cables used in this connection are as follows:

- RF coaxial cable x 1
- RCA audio cable (L/R) x 1
- RCA video cable x 1
- Please purchase the rest of the necessary cables at your local store.

Note

- RF modulator is not supplied with this unit. You need to purchase it at your local store.
- The quality of picture may become poor if this unit is connected to an RF modulator.

CONNECTION TO A CABLE / SATELLITE BOX

- 1) Disconnect the power cords of the devices from the AC outlet.
- 2) Make the connection as illustrated below.

e.a.)

satellite

3) Plug in the power cords of the devices to the AC outlet.

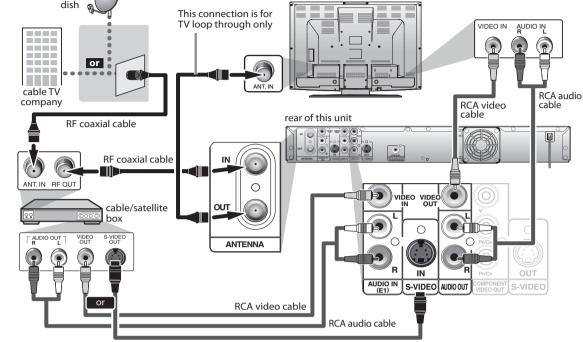


Function Setup

 This reminder is provided to call the cable TV system installer's attention to Article 820-40 of the National Electrical Code, which provides guidelines for proper grounding - in particular, specifying that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as possible.

Españo

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S-video cable

rear of your TV

Supplied cables used in this connection are as follows:

- RF coaxial cable x 1
- RCA audio cable (L/R) x 1
- RCA video cable x 1
- Please purchase the rest of the necessary cables at your local store.

Note

- Required cables and connecting methods differ depending on the cable/satellite box. For more information, please contact your cable/satellite provider.
- Instead of using video out jack of this unit, you can also use S-VIDEO OUT jack or COMPONENT VIDEO OUTPUT jacks for connecting to your TV.

With this setup:

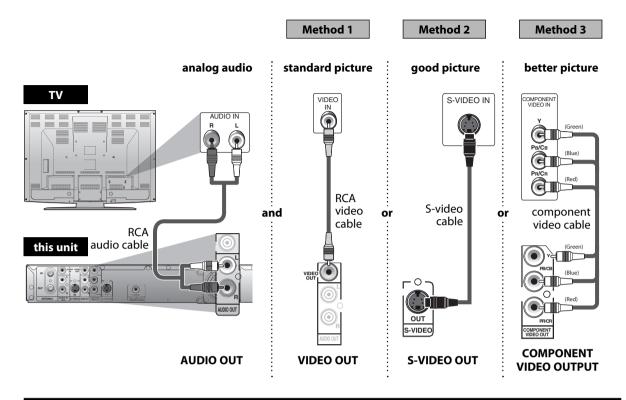
- You can record any unscrambled channel by selecting the channel on the cable/satellite box. Be sure that the cable/satellite box is turned on.
- You cannot record one channel while watching another channel.

Note to CATV system installer

EN

CONNECTION TO A TV

Make one of the following connections, depending on the capabilities of your existing device.



Supplied cables used in this connection are as follows:

• RCA audio cable (L/R) x 1

• RCA video cable x 1

Please purchase the rest of the necessary cables at your local store.

Note

- Connect this unit directly to the TV. If the RCA audio/video cables are connected to a VCR, pictures may be distorted due to the copy protection system.
- When "Progressive Scan" is set to "ON", no video signal will be output from the VIDEO OUT or S-VIDEO OUT jack.

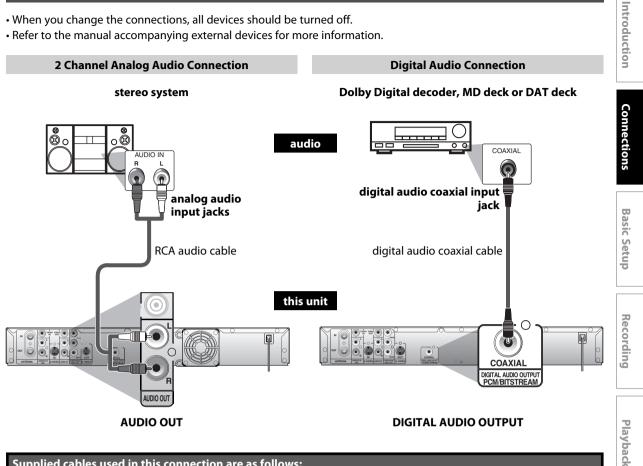
To set progressive scan mode, refer to page 103

• This unit is compatible with the progressive scan system. The feature provides you with the higher quality images than the traditional output system does. To utilize this feature, you must set "Progressive Scan" to "ON".

CONNECTION TO AN AUDIO SYSTEM

• When you change the connections, all devices should be turned off.

• Refer to the manual accompanying external devices for more information.



Supplied cables used in this connection are as follows: • RCA audio cable (L/R) x 1

Please purchase the rest of the necessary cables at your local store.

Sett	ing Setup >General Setting >Playback >Disc Audio > Dolby Digital	Editin
If output is Dolby Digital encoded audio, connect to a Dolby Digital decoder.	Stream	91
Connecting to an MD deck or DAT deck.	РСМ	
If not connected to any external devices.	РСМ	Fun
* To complete these settings refer to page 00		3

* To complete these settings, refer to page 98.

Note

- The audio source on a disc in a Dolby Digital multi channel surround format cannot be recorded as digital sound by an MD or DAT deck.
- By connecting this unit to a Dolby Digital decoder, you can enjoy high-quality Dolby Digital multi channel surround sound as heard in the movie theaters.
- Playing back a DVD using incorrect settings may generate noise distortion and may also damage the speakers.

Españo

BEFORE YOU START

After you have completed all the connections, you must find the viewing channel (external input channel) on your TV.

Finding the Viewing Channel on Your TV



Input Mode Names for Common TV Brands (Example)			
Admiral	AUX	Panasonic	TV/VIDEO
Curtis Mathis	LINE1, LINE2, 00, 90, 91, 92, 93	RCA	INPUT, TV/VCR, 00, 90, 91, 92, 93
GE	INPUT, TV/VCR, 00, 90, 91, 92, 93	Samsung	TV/VIDEO
Hitachi	INPUT, AUX	Sanyo	VIDEO
JVC	VIDEO, VIDEO 1, VIDEO 2, VIDEO 3	Sharp	00
Kenwood	AUX	Sony	VIDEO1, VIDEO2, VIDEO3
LXI-Series	00	Toshiba	TV/GAME
Magnavox	AUX CHANNEL	Zenith	00

Note

- Video input selection varies for different brand's models of TVs.
- Consult your TV manufacturer if none of the above is successful.

After you have made all the necessary connections, press [STANDBY-ON の] to turn on the unit.



Turn on your TV.

• If connected to your VCR make sure it is switched off or in standby mode before proceeding.

3

Press "2" on the TV's remote control, then press channel down button repeatedly until you see "Initial Setup" menu.

Initial Setup	
	OSD Language English Français Español

This is the correct viewing channel (external input channel) for the recorder.

- For some TVs, there may be a button on the TV's remote control that accesses the external input channel. It may be labeled "SOURCE", "AV", or "SELECT". In such case, press it repeatedly. Refer to your TV's user manual for details.
- If more than 10 minutes have past since you have turned on the unit, you may see the MAGNAVOX screen saver instead of "Initial Setup" menu.

MAGNAVOX screen saver:

	MAG	NAVOX	

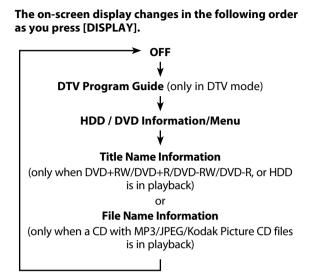


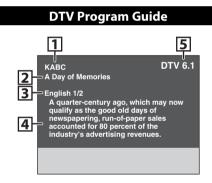
Proceed to step 2 in "INITIAL SETTING" on page 25.

BEFORE YOU START

This unit uses the following on-screen displays and menus to guide you to the easy operations. The on-screen displays give you the information on the loaded disc or the disc/file in playback, etc. The menus allow you to change the various kinds of settings for playing back, recording, or editing to suite your preference.

Guide to On-Screen Display / Menu



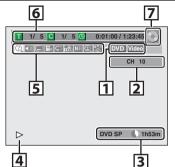


- 1. Broadcast station
- 2. Program title (max. 2 lines displayed)
- 3. Audio language ("Other" is displayed when the audio language cannot be acquired, or the acquired languages are other than English, Spanish or French.)
- Program guide (max. 6 lines displayed)
- Channel number

Note

- When the program guide is displayed in more than 7 lines, use [▲ / ▼] to scroll.
- "No description provided" is displayed when the program guide is not provided.

HDD / DVD Information / Menu



- * This is an example screen only for explanation. Displayed items may vary depending on the disc you insert.
- 1. Indicates the file type or a disc type and format mode. (DVD mode only)
- **2.** Indicates a channel number or selected external input channel.
- **3.** Indicates the component in use, a recording mode and possible recording time left.

The on-screen indication of the possible recording time left on HDD / DVD may differ from the actual recordable time as this unit employs the variable bit rate encoding system which varies the recording (storage) amount of data in conformity with the amount of information on the video.

- 4. Indicates an operation status.
- 5. Each icon means:
 - ? Search : Marker
 ? Audio NR : Noise Reduction
 ? Subtitle () : Zoom
 - 🏹 : Angle 🛛 🛃 : Surround
 - : Repeat
- **6.** Indicates the current title number/total number of titles, the current chapter number/total number of chapters, and time lapse of the current title playback/ total duration of the title.

7. Indicates the component in use.

- 间 : HDD
-) : DVD

Españo

Connections

BEFORE YOU START

Title/File Name Information

Title Name Information

Title Name	\odot
My Title	

File Name Information

File Name	\odot
My File	

1.Displays title/file name.

Main Menu

Press **[SETUP]** to display the main menu. Then use **[**▲ / ▼] to select a menu and press **[OK]** to display the menu. These menus provide entries to all main functions of the unit.

Image: Setup Image: Setup

1. General Setting:

To go to general setting menu.

2. Timer Programming:

To program a timer recording.

3. Title List:

- To call up the title list.
- 4. Disc Edit:
 - To set up the DVD setting.

5. HDD Menu:

To set up the HDD setting.

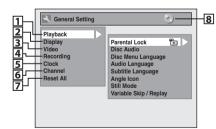
6. Dubbing:

- To dub the content of the HDD to DVD or vice versa.
- "Dubbing" is available only when a recordable disc is loaded.

7. CD Playback Mode:

- To set up the CD playback setting.
- "CD Playback Mode" is available only when an audio CD, a video CD, a CD-RW/-R with MP3 / JPEG / Kodak Picture CD files is inserted into the unit.

General Setting Menu



1. Playback:

- To set up the unit to play back discs as you prefer.
- 2. Display:

To set up the OSD screen as you prefer.

- 3. Video:
 - To set up the video setting.

4. Recording:

To set up the unit to record to discs as you prefer.

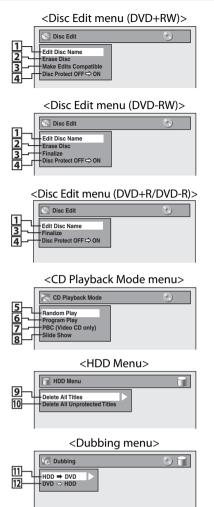
- 5. Clock:
 - To set up the clock of the unit as you need.
- 6. Channel:

To adjust the channel setting of the unit as you prefer.

- 7. Reset All:
 - To reset the setting to the factory default.
- 8. 📺 :HDD

Indicates the available mode for the selected function.

Disc Edit / HDD Menu / Dubbing / CD Playback Mode



1. Edit Disc Name:

Allows you to rename the disc.

 Erase Disc: (DVD+RW/DVD-RW only) Allows you to erase all contents in the disc and format it.
 Make Edite Commetitues (DVD : DW ends)

- Make Edits Compatible: (DVD+RW only) Allows you to memorize the editing status on the disc if you have added or deleted chapters, or made chapters hidden on this unit, and to effect it when playing back on the other unit.
 Finalize: (DVD+R/DVD-RW/-R only) Allows you to finalize a disc containing recorded titles.
- 4. Disc Protect : Allows you to protect a disc from accidental editing or
- recording.
 5. Random Play:
 Allows you to activate the random playback feature

Allows you to activate the random playback feature.

6. Program Play: (audio CD/video CD only) Allows you to activate the program playback feature.

- PBC (Video CD only): Allows you to select images or information on the menu screen by activating PBC (playback control) function.
- Slide Show: (JPEG / Kodak Picture CD files only) Allows you to select the display time of the slide show mode.

9. Delete All Titles:

Allows you to delete all titles, including the protected titles, in the HDD title list.

10.Delete All Unprotected Titles:

Allows you to delete all unprotected titles in the HDD title list.

11.HDD ➡ DVD:

Allows you to dub from HDD to DVD.

12.DVD ➡ HDD:

Allows you to dub from DVD to HDD.

Basic Setup

Español

Connections

Switching HDD / DVD Mode

Because this unit is a combination of HDD and DVD recorder, you must first select which component (output mode) you wish to operate.

HDD mode

Press [HDD] to activate the HDD component.

DVD mode

Press **[DVD]** to activate the DVD component.



How to Insert a Disc

1) Press [OPEN/CLOSE ▲] to open the disc tray.

2) Place the disc on the disc tray with its label side facing up.



Align the disc to the disc tray guide.

3) Press [OPEN/CLOSE ▲] to close the disc tray.

It may take a while to load the disc.

To eject the disc:

Press [OPEN/CLOSE ▲] to open the disc tray, then remove the disc before turning off the unit.

• When inserting a brand-new DVD+RW/DVD-RW, the unit automatically starts to format.

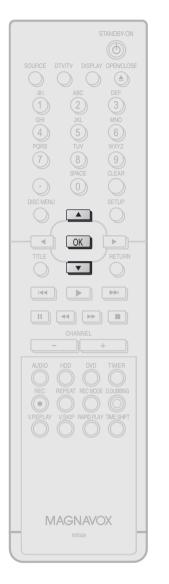
• If titles have been recorded on the disc, the title list is displayed. Press [STOP] to exit the title list.

INITIAL SETTING

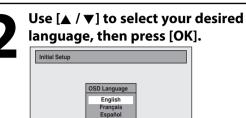
You need to follow these steps when you turn on this unit for the first time.

Connections

Function Setup



Follow the procedure in "Finding the Viewing Channel on Your TV" on page 20 to display "Initial Setup" menu.





Use [▲ / ▼] to select the type of broadcasting signal, then press [OK].



The unit will start getting channels available in your area.

Antenna:

(When using antenna)

The channels broadcasted in analog TV and digital TV are automatically scanned and memorized. Only the receivable channels in the area will be memorized.

Cable (Analog):

(When using basic cable)

The channels broadcasted in analog CATV are automatically scanned and memorized.

Cable (Analog / Digital):

(When using basic cable)

The channels broadcasted in analog CATV and digital CATV are automatically scanned and memorized.



Entry screen for the clock setting will appear.



Proceed to step 5 in "Manual Clock Setting" on page 30.

• If a PBS (public broadcasting station) is available in your area, follow "Auto Clock Setting" on page 29.

Español

CHANNEL SETTING

If you have changed antenna connection, we recommend that you program available channels in your area with the following procedures.

Auto Channel Scan



Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].

"General Setting" menu will appear.



Use $[\blacktriangle / \triangledown]$ to select "Channel", then press [OK].

"Channel" menu will appear.

3

Use [▲ / ▼] to select "Auto Channel Preset", then press [OK].

Use [▲ / ▼] to select the type of broadcasting signal, then press [OK].

Auto Channel Preset Antenna



The unit will start getting channels available in your area.

- When aerial antenna is connected, select "Antenna".
- When connected to CATV, select "Cable (Analog)" or "Cable (Analog/Digital)".

To cancel the auto channel preset during scanning:

Press [RETURN] or [SETUP] to cancel.

When scanning is over, press [SETUP] to exit.

To cycle through only the memorized channels, use [CHANNEL + I -].

To select a channel directly (including the ones not memorized), use **[the Number buttons]**.

Note

• If the auto channel preset is canceled during presetting, some channels not yet preset may not be received.

Adding / Deleting Channels

You may want to add or delete TV channels if your channel lineup changes or if you no longer watch some channels.

Adding channel is only available for the analog TV channels.

Make sure

• You perform "Auto Channel Scan" before adding or deleting the channels.



Press [DTV/TV] to select the mode (DTV or TV) to/from which you want to add/delete channels.



Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].

"General Setting" menu will appear.

2

Use [▲ / ▼] to select "Channel", then press [OK]. "Channel" menu will appear.

channel mend win appear.

Use [▲ / ▼] to select "Manual Channel Preset", then press [OK].

Auto Channel Preset Manual Channel Preset TV Audio Select

- If you are adding or deleting analog TV/CATV channels, go to **ANALOG** to continue.
- If you are deleting digital TV/CATV channels, go to DIGITAL to continue.

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Introduction

Connections

ANALOG

Select the channel number to add or delete.

- Use [CHANNEL + / —] to cycle through only the memorized channels.
- Use [◀/▶] to cycle through all the channels including the ones not memorized.
- Use [the Number buttons] to select a channel directly.
- When a memorized channel is selected, "Add" is checked and highlighted as a default.
- When an unmemorized channel is selected "Delete" is checked and highlighted as a default.



Use [▲ / ▼] to select "Add" or "Delete", then press [OK].



Your setting will be activated and it will automatically switch to the next channel so that you can continue adding or deleting channels.



Press [SETUP] to exit.

DIGITAL

Select the channel number to delete.

- Only the major channel is displayed in "Manual Channel Preset" menu. (The channel number displayed in the parenthesis is a virtual channel number)
- Use [CHANNEL + / —] to cycle through only the memorized channels.
- You cannot use [◀/▶] for the digital TV channel selection.
- Use [the Number buttons] to select a channel directly.
- When a memorized channel is selected, "Add" is checked and highlighted as a default.
- When an unmemorized channel is selected "Delete" is checked and highlighted as a default.

Use [▲ / ▼] to select "Delete", then press [OK]. Then select the next channel to delete.

• If the setting is complete, press [**RETURN**] to activate "Manual Channel Preset".

CI Manual Channel Preset	3
DTV 2 (CH)	

Your setting will be activated.

WARNING:

• For the digital TV channels, you cannot recover the deleted channels once they are deleted unless you perform the auto channel preset again.

Press [SETUP] to exit.

TING THE CLOCK

Set the clock before you try the timer programming. If a PBS (public broadcasting station) is available in your area, follow "Auto Clock Setting" below. If not, follow "Manual Clock Setting" on page 30.

Auto Clock Setting

This unit can set the time and date automatically by referring to a PBS station.

Make sure

- The antenna/cable TV connections are correct.
- Channels are set. (Refer to page 26.)
- If this unit is connected to a cable/satellite box, select the local PBS station on them to set the clock automatically.



Note

- The clock may set itself automatically after you connect the antenna/cable signal and plug in the power cord.
- · Only the analog PBS channel signal is effective for auto clock setting.
- The unit receives the clock data at 12:00 a.m. / p.m. from the PBS channel when the power is off.

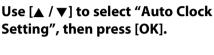
Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].

"General Setting" menu will appear.



Use $[\blacktriangle / \nabla]$ to select "Clock", then press [OK].

"Clock" menu will appear.



Setting", then press [OK].

Use $[\blacktriangle / \nabla]$ to select "Auto", then press [OK].

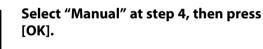
Auto Clock Setting	J
OFF Auto Manual	

Press [SETUP] to exit.

Press [STANDBY-ON O] to turn off the unit.

This unit will search for the time only when the power is off. Leave it off for several minutes to give this unit time to set the clock.

If the unit chooses an incorrect PBS channel, set the PBS channel manually by following the steps below.



Use [the Number buttons] or $[\blacktriangle / \bigtriangledown]$ to enter your PBS channel number, then press [OK].

Set C	hannel No.	
СН	1	

Press [SETUP] and turn off the unit.

Españo

Recording

Playback

Editing

Function Setup

Connections

Introduction

Manual Clock Setting

Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].

"General Setting" menu will appear.



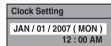
Use [▲ / ▼] to select "Clock", then press [OK]. "Clock" menu will appear.

3

Use $[\blacktriangle / \blacktriangledown]$ to select "Clock Setting", then press [OK].

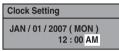
4

Use [▲ / ▼] to select calendar or time, then press [OK].



5

Use [◀/▶] to select an item to set, and use [▲ /▼] to select the contents to suit your preference, then press [OK] when you finish setting all the contents.



Your setting will be activated. The clock start counting when you press **[OK]**.



Press [SETUP] to exit.

Daylight Saving Time

When "Daylight Saving Time" is "ON", the unit clock will automatically adjust the time in order to fit the daylight saving time.

"ON (MAR - NOV)" has been selected as the default.



Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].

"General Setting" menu will appear.



Use $[\blacktriangle / \lor]$ to select "Clock", then press [OK].

Clock" menu will appear.



Use [▲ / ▼] to select "Daylight Saving Time", then press [OK].



Use [▲ / ▼] to select "ON (MAR -NOV)", "ON (APR - OCT)" or "OFF", then press [OK].

Daylight Saving Time	
	ON (MAR - NOV)
	ON (APR - OCT) OFF

ON (MAR - NOV):

Move forward one hour on the second Sunday in March and move back one hour on the first Sunday in November.

ON (APR - OCT):

Move forward one hour on the first Sunday in April and move back one hour on the last Sunday in October.

Press [SETUP] to exit.



- Your setting will be canceled if you press [RETURN] before pressing [OK] at step 5.
- Your clock setting will be lost if either there is a power failure or this unit has been unplugged for more than 30 seconds when you set the clock manually.
- For setting the day, year, hour, and minute, [the Number buttons] can also be used.
- You can set the built-in calendar from the year 2007 up to 2056.

Connections

Basic Setup

Recording

Switching Analog Mode / **Digital Mode**

You can easily switch the analog TV (NTSC) and digital TV (ATSC) with the remote control.

Press [DTV/TV] on the remote control.

The analog mode and digital mode switch alternately.

Note

• When you switch the analog mode to the digital mode, it may take about 10 seconds until the digital channel selection is completed. The following screen is displayed while switching the mode.



Channel Selection

Select channels by using [CHANNEL + / -] or [the Number buttons] found on remote control.

[CHANNEL + / -]

Use [CHANNEL + / -] to change the channel.

[the Number buttons]

Press the channel number with [the Number buttons] to select a channel you want to watch.

<Analog TV Channels>

Enter the channel number with [the Number buttons] to select a channel you want to watch.

For 1-digit number

e.g.) 2 ch:

[0] + [2], [2] + [•] or [2] + leave it for 2 seconds.

For 2-digit number

e.g.) 12ch: [1] + [2]

<Digital TV Channels>

Enter the major and minor channel number with [the Number buttons] to select a channel you want to watch. For 1-digit number

e.g.) 2-2 ch: maior channel minor channel

[0] + **[2]** or **[2]** + **[•] [0]** + **[2]**, **[2]** + **[•]** or [2] + leave it for 2 seconds.

For 2-digit number

e.g.) 35-16ch: major channel [3] + [5] minor channel [1] + [6]

- If you enter 1 digit for major channel and leave it for 2 seconds, the number will be taken as the major channel and lowest minor channel of the major channel will be displayed.
- If there is no minor channel input, lowest minor channel of the major channel will be displayed.

Note

- It may take up to 5 to 7 seconds to switch the digital TV channels.
- In digital TV broadcasting, 2 or more channels, called minor channels, are simultaneously broadcast on one main channel, called major channel.

About digital TV broadcasting:

With its high definition broadcast, digital broadcasting far surpasses analog broadcasting in both its picture and sound quality.

What is the minor channel?

By using high compression technology, digital broadcasting offers a service that enables multiple signals to send simultaneously.

Therefore, you can select more than one program per major channel since digital broadcasting technology distinguishes between multiple channels broadcast by a signal network.

NTSC (analog mode)	[Air Time] 18:00	e] ATSC (digital mode)		
	18:30	CH4-1	smallest CH	smallest CH
		CH4-1	⇒ <= CH4-2	⇒ CH4-3
CH4	19:00		smallest	₿ CH4-3
	19:30		⇔ ♦ < CH4-2	smallest
	20:00	4	L	CH
	maior	channel	minor	channel

→ : change automatically

 \Rightarrow : change manually by using [CHANNEL +/-]

Function Setup

Others

Españo

This section describes how to switch the TV audio. When you record a TV program, only the audio selected here will be recorded.

Selecting TV Audio

Digital TV



Press [AUDIO] to cycle through available audio languages.



- When you press **[AUDIO]**, selected language will be displayed on the TV screen.
- Every time you press [AUDIO], the language will be switched.
- e.g.) English $1/3 \rightarrow$ Spanish $2/3 \rightarrow$ Other 3/3
- Available languages differ depending on the broadcast.
- The language information display will automatically disappear.
- When you record digital TV broadcasting, the audio language you have selected will be recorded.

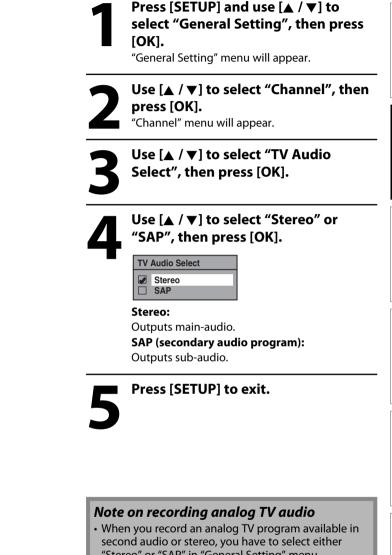
Note

- You cannot change the audio language for the timer recording of digital TV broadcasting.
- Pressing [AUDIO] does not control external device audio.
- When there is only one audio channel on the broadcast, pressing **[AUDIO]** does not display anything.

Selecting TV Audio (cont'd)



Analog TV



second audio or stereo, you have to select either "Stereo" or "SAP" in "General Setting" menu beforehand. Refer to the following table to check an appropriate setting.

Selected audio	Broadcast audio	Disc recording	Audio output
Stereo	STEREO+SAP	STEREO	STEREO
	STEREO	STEREO	STEREO
	MONO+SAP	MONO	MONO
	MONO	MONO	MONO
SAP	STEREO+SAP	SAP	SAP
	STEREO	STEREO	STEREO
	MONO+SAP	SAP	SAP
	MONO	MONO	MONO

Españo

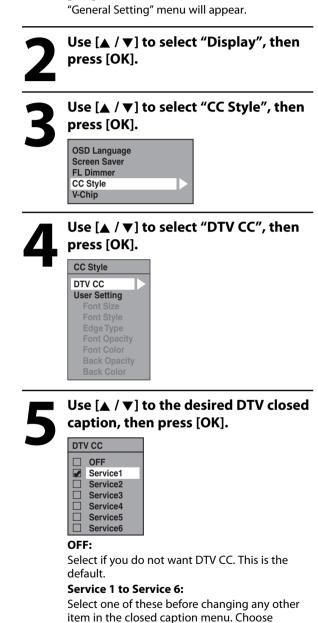
DTV Closed Caption

Digital TV

[OK].

Digital TV has its own closed captions called DTV CC. Use this menu to change the settings for DTV CC.





Press [SETUP] and use [▲ / ▼] to select "General Setting", then press

"Service 1" under normal circumstances.



Note

• Even if you set "DTV CC" to anything other than "OFF", its effect will temporarily be canceled while recording.

Closed Caption Style

Digital TV

Digital TV can also change the style of its closed caption such as font, color or size, etc.

OK

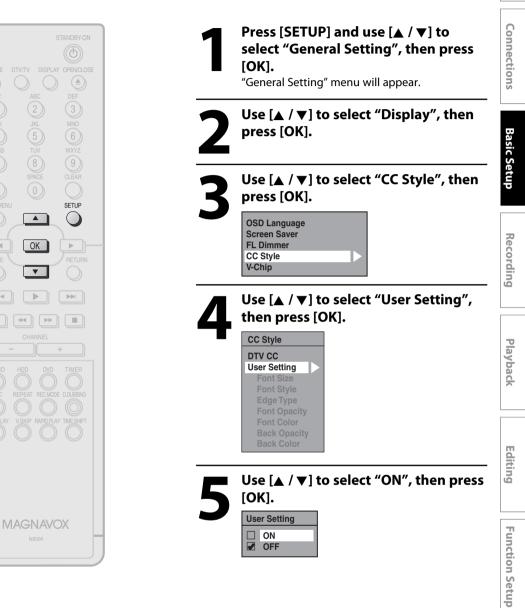
▼

Þ

-

- 144

 (\bullet)



Español

Others

Use [▲ / ▼] to select the item and switch the setting for each item you want to set, then press [OK].

- When "User Setting" is set to "ON", you can set the following items. CC style set by "User Setting" will be displayed.
- The setting description for each item is shown below.

Font size of the displayed caption can be switched as below.

Font Size	
	Middle
	Large
	Small

Font style of the displayed caption can be switched as below.

For	Font Style	
	Style1	
	Style2	
	Style3	
	Style4	
	Style5 Style6	
	Style7	
	Style8	

<Edge Type>

Edge type of the displayed caption can be switched as below.

Edge Type	
None	
Raised	
Depressed	
Uniform	
L.Shadow	
R.Shadow	

Font opacity of the displayed caption can be switched as below.

Font Opacity		
	Solid	
	Translucent	
	Flash	

Font color of the displayed caption can be switched as below.

Font Color		
	Transparent	
	White	
	Black	
	Red	
	Green	
	Blue	
	Yellow	
	Magenta	
	Cyan	

<Back Opacity>

Background opacity of the displayed caption can be switched as below.

Back Opacity		
	Solid	
	Translucent	
	Flash	

<Back Color>

Background color of the displayed caption can be switched as below.

Back Color	
	Transparent
	White
	Black
	Red
	Green
	Blue
	Yellow
	Magenta
	Cyan



INFORMATION ON RECORDING

Before you make a recording, read the following information.

Recordable Discs

This unit can record to DVD+RW, DVD+R, DVD-RW and DVD-R.

DVD+R/DVD-R can only be recorded to once. DVD+RW/ DVD-RW can be recorded to and erased many times. **DVD-RW/-R will be recorded in the DVD+VR mode automatically in this unit.**

Logo		Attributes	
DVD+ReWritable DVD+RW	DVD+R DVD+R	8cm/12cm, single-sided, single layer disc Approx. max. recording time (SLP mode): 360 minutes (4.7GB) (for 12cm)	
DVD-RW	DVD-R	108 minutes (1.4GB) (for 8cm)	

• Following discs are recommended for good recording quality and are proven to be compatible with this unit. However, depending on the media condition the unit may not read the disc properly.

Verbatim	DVD+R 8x,	DVD+RW 4x,
	DVD-R 8x,	DVD-RW 2x
JVC	DVD-RW 4x	
Maxell	DVD+R 4x/8x/16x,	DVD-R 8x/16x
SONY	DVD+R 4x/8x/16x,	DVD+RW 4x
TDK	DVD+R 4x/8x/16x	

Performance of any other discs are not guaranteed.

 You can play back DVD+RW on most DVD players without finalizing. However, if you have added or deleted chapters, or made chapters hidden, you must perform "Make Edits Compatible" before being able to see those effects on other units. (Refer to page 91 for more details.) To play back discs other than DVD+RW on other DVD players, you will need to finalize.

Unrecordable Discs

- DVD-RW recorded in the mode other than +VR is not recordable on this unit unless you erase all contents in the disc (refer to page 90).
- DVD-R recorded in the mode other than +VR is not recordable on this unit.

Maximum r	ecordable numbers of title / chapters
HDD :	600 titles 99 chapters per title
DVD :	49 titles per disc 254 chapters per disc 99 chapters per title

Españo

Others

Recording Mode

You can select a recording mode among 6 options, and the recording time will depend on the recording mode you select as follows.

Disc size	Recording mode	Recording time	Video/sound quality	
	HQ	18 min	*****	(good)
	SP	36 min	☆☆☆☆☆	
8cm Disc	SPP	45 min	****	
	LP	54 min	***	
	EP	72 min	**	
	SLP	108 min	☆	(poor)
	HQ	60 min	*****	(good)
	SP	120 min	****	
12cm Disc	SPP	150 min	****	
12cm Disc	LP	180 min	***	
	EP	240 min	☆☆	
	SLP	360 min	☆	(poor)
	HQ	15 hrs	☆☆☆☆☆☆	(good)
HDD (Internal)	SP	30 hrs	****	
	SPP	37.5 hrs	****	
	LP	45 hrs	***	
,	EP	60 hrs	**	
	SLP	90 hrs	*	(poor)

• The recording time is only an estimate. The actual recording time may differ.

- The audio and video quality gets poorer as the recording time becomes longer.
- Each time [**REC MODE**] is pressed, recording mode and its allowed recording time will be displayed.

Note

- This unit cannot record to CD-RW or CD-R.
- All high definition pictures will be down converted to the standard definition pictures when they are recorded on this unit.
- DVD+RW/+R, DVD-RW/-R and CD-RW/-R recorded on a personal computer or a DVD or CD recorder may not be played back if the disc is damaged or dirty or if there is condensation on the player's lens.
- If you record a disc using a personal computer, even if it is recorded in a compatible format it may not be played back because of the settings of the application software used to create the disc. (Check with the software publisher for more detailed information.)
- Since the recording is made by the VBR (variable bit rate) method, depending on the picture you are recording, the actual remaining time for recording may be a little shorter than the remaining time displayed on the TV screen.
- You cannot record copy-protected program using this unit. (Copy-protected signal is included in DVDvideo or some satellite broadcasts.)
- You cannot record "copy-once only" program on DVD.

About HDD

HDD is a special device which has high recording density and is suited for long-time recording or high-speed cueing but by contrast, has many factors which can cause breakage. Use HDD on the premise that you should dub the recorded programs to a DVD to protect your precious videos.

HDD is a temporary storage location:

HDD is not a permanent storage location of the recorded contents. Be sure to use it as a temporary storage location until you watch the programs once, edit them, or dub them to a DVD.

Be sure to dub (back up) data promptly if you find abnormalities in HDD:

If there is mechanical trouble with the HDD, grinding or other sounds may be heard or blocky noise may appear on the image. If you continue to use as it is, deterioration may continue and eventually the HDD may not be used at all. If you notice these symptoms of a failing HDD, promptly dub the data to a DVD. When an HDD fails, recovery of recorded content (data) may be impossible.

About the remaining capacity of HDD recording time:

The on-screen indication of the possible recording time left on HDD / DVD may differ from the actual recordable time as this unit employs the variable bit rate encoding system which varies the recording (storage) amount of data in conformity with the amount of information on the video.

Before recording to the HDD, ensure there is sufficient space on the HDD by deleting unnecessary titles in advance.

Connections

BEFORE RECORDING

Make Recording Compatible



Use this feature to make the unfinalized +VR mode discs recorded on other unit recordable on this unit. When you make an additional recording on this unit with "Make Recording Compatible" set to "ON", the title menu is automatically converted to our style.

1) Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].

"General Setting" menu will appear.

- 2) Use [▲ / ▼] to select "Recording", then press [OK]. "Recording" menu will appear.
- 3) Use [▲ / ▼] to select "Make Recording Compatible", then press [OK].
- 4) Use [▲ / ▼] to select "ON" or "OFF", then press [OK].



- ON: Title list will be replaced when you make additional recordings to the discs recorded by other units.
- Prohibiting additional record to the disc that OFF: has a title list created by other units.

5) Press [SETUP] to exit.

Setting for Auto Chapter

You can set a specified time for chapter marks.

1) Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].

"General Setting" menu will appear.

- 2) Use [▲ / ▼] to select "Recording", then press [OK]. "Recording" menu will appear.
- 3) Use [▲ / ▼] to select "Auto Chapter", then press [OK].
- 4) Use [▲ / ▼] to select a desired time option, then press [OK].

Aut	Auto Chapter		
	OFF		
	5 minutes		
	10 minutes		
	15 minutes		
	30 minutes		
	60 minutes		

5) Press [SETUP] to exit.

Note

- The interval for auto chapter marks may slightly differ.
- A blank chapter may be created depending on the remaining time of the disc.

Editing

Playback

Function Setup

Others

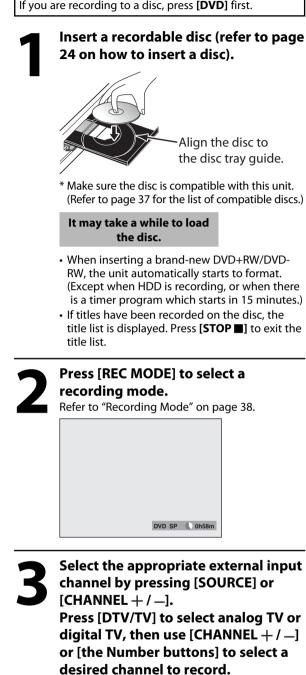
BASIC RECORDING & ONE-TOUCH TIMER RECORDING

Follow the steps to record TV programs.



If you are recording to the HDD, press [HDD] first, then proceed to step 2.

If you are recording to a disc, press [DVD] first.



Refer to "Switching Analog Mode/Digital Mode" and "Channel Selection" on page 31.





Press [REC ●] to start recording.

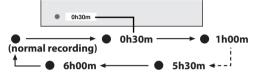
"● HDD" or "● DVD" will be displayed for 5 seconds. e.g.) DVD

Press [PAUSE]] to pause recording. Press [PAUSE]] or [REC] again to restart recordina.

To set one-touch timer recording (OTR)...

This is a simple way to set the recording time in blocks of 30 minutes.

Press [REC •] repeatedly until the desired recording time (30 minutes to 6 hours) appears on the TV screen. One-touch timer recording will start.



To change the recording length during the onetouch timer recording:

Press [REC •] repeatedly until the desired length appear.

To cancel the one-touch timer recording within the specified time:

Press [STOP].

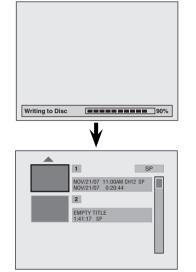
Note

When the recording is completed, the unit will ask you whether to turn off the unit except under conditions listed below.

- If a timer recording is programmed to start in 4 minutes.
- During playback of HDD or DVD.
- While displaying menus or information on the screen.
- The unit will be turned off automatically if you select "Yes" or if you do not reply in 1 minute.

Press [STOP] to stop recording.

As for DVD recording, the title list will appear automatically after writing to a disc complete. (Refer to "Guide to a Title List" on page 74.) e.a.) DVD+R



Press [STOP ■] to exit the title list.

Others

Españo

Editing

Playback

Introduction

Connections

Basic Setup

• If playback and recording are in progress at the same time, select the appropriate component by pressing [HDD] or [DVD] before you press [PAUSE]] or [STOP] to pause or stop the operation.

Note for one-touch timer recordina

• The remaining recording time will be displayed on the front panel display during one-touch timer recording. Press [DISPLAY] to see it on the TV screen.

• When you press [REC ●], recording starts immediately and continues until the disc is full or you stop recording.

• When you record a TV program, you have to select the TV channel audio beforehand. Only the selected channel

• You can play back a title on one component while making a recording on other. To do so, simply select the component (HDD or DVD) you like to use for the playback by pressing [HDD] or [DVD] during HDD / DVD

• This unit cannot record images as aspect ratio of 16:9. The 16:9 images will be recorded as 4:3.

audio will be recorded. Refer to "Selecting TV Audio" on pages 32-33 for more details. • This unit cannot record in both stereo and SAP (secondary audio program) at the same time.

• You cannot change the recording mode during the recording pause mode. • You can change a channel to be recorded during the recording pause mode.

• When the unit clock has not been set, the space for a date and time of title names will be blank.

- Unlike the timer recording, you can perform the following operations during one-touch timer recording.
- Turning off the power to stop one-touch timer recording.

recording. And then follow the normal playback procedure.

- Using [REC •] or [STOP] on the remote control.
- You cannot use the pause function during one-touch timer recording.

TIMER RECORDING

You can program the unit to record up to 36 programs within a month in advance. Daily or weekly program recordings are also available.

Before recording, make sure

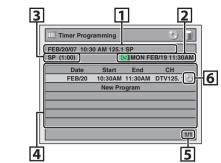
- Set the clock before setting a timer programming.
- If you are recording to a disc, insert a recordable disc with enough recordable space.



Note

- If you have not set the clock yet: Entry screen for the clock setting will appear instead of the timer programming list at step 1. Continue with the step 4 in "Manual Clock Setting" on page 30 before setting a timer programming.
- Use [◀ / ▶] to move the cursor to the left and the right in the entry screen for the timer programming.

Guide to Timer Programming Display



- 1 Title of a timer program (Contains date, time, channel, recording mode of the program)
- 2 Current date and time
- 3 Recording mode, and length of the recording
- 4 Timer program list
- 5 Total number of pages and current page (6 pages maximum)
- 6 Recording media

Press [TIMER].



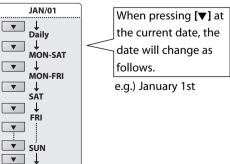
Use [▲ / ▼] to select "New Program", then press [OK].

I Timer Progr	amming		- S 📄
	C	MON FE	B/19 11:30AM
Date	Start	End	СН
	New Pro	gram	
			1/1



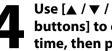
Use [▲ / ▼] to enter the date, then press [▶].





JAN/31

TIMER RECORDING



Use [▲ / ▼ / ◀ / ▶] or [the Number buttons] to enter the start and end time, then press [▶].

Date	Start	End
FEB/20	10:30AM	:
СН	REC To	Mode
DTV125.1	HDD	SP
		SP 🌔 2h00m



Use $[\land / \lor / \lhd / \triangleright]$ to select analog ("- - -") / digital ("DTV") mode or external input (E1 / E2), then press [▶].

e.g.) external input mode

Date	Start	End
FEB/20	10:30AM	11:30AM
CH	REC To	Mode
E1	HDD	SP
		SP 🌔 1h00m

To record from external input (e.g., cable/ satellite box), select E1 or E2.

Use $[\blacktriangle / \mathbf{\nabla}]$ to select the channel number to record.

For digital mode, select both major and minor channels. Refer to "How to select a channel number for the timer recording" on page 44 for more details.

e.g.) analog mode



e.g.) digital mode

Date FEB/20	Start 10 : 30AM	End 11 : 30AM
CH	REC To	Mode
DTV125.1	HDD	SP
		SP 🌔 1h00m



Use $[\blacktriangle / \heartsuit]$ to select the recording media ("HDD" or "DVD"), then press [▶].

e.g.) recording to DVD

Date	Start	End
FEB/20	10:30AM	11:30AM
CH	REC To	Mode
DTV125.1	DVD	SP
		SP 🌔 1h00m

Use $[\blacktriangle / \nabla]$ to select a recording mode.



Refer to "Recording Mode" on page 38.

 You can check the remaining recordable space of the disc when you select the recording mode.



Auto recording mode select (DVD only)...

When "Auto" is selected as a recording mode, the unit calculates how much time is available on the disc and selects the best recording mode available automatically to complete recording the program.



• "Auto" is only available for one program in the timer program list.

Alternate recording (DVD only)...

If there is no recordable disc in the unit, if the disc does not have enough space to complete the recording, or if the material is "copy-once" program and prohibited to be recorded on a DVD, the unit will detect it and automatically record to the HDD even when DVD is selected as the recording media. If the available space on the HDD is less than that of DVD, the unit will not perform the alternate recording. This feature is available only for timer recording. Not available for one-touch timer recording.



Press [OK] when all items are entered.

• will appear on the front panel display.

🔲 Ті	imer Progra	amming		۵ 📄
FEB/20/07 10:30 AM 125.01 SP SP (1:00)				
	Date FEB/20	Start	End	CH DTV125, 1
	TEDIZO	New Pro		D11123.1
				1/1

Your program setting is now stored.

- To set another program, repeat steps 2 to 8.
- To exit, press [TIMER] or [SETUP].
- When 2 or more programs are overlapped, "Timer program overlapped" appears, and the overlapped program will be displayed in blue.
- To correct the timer program refer to "Checking, canceling, or correcting the timer programming information" on page 44.

Editing

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EN

TIMER RECORDING

	How to select a channel number for the timer recording		
Analog TV	For channel number 2-6 press, press [>] or [•] to decide the channels. For other channels (7-69), the channel will be decided as soon as you enter the channel number.		
Analog CATV	For channel number 1-12 press, press [>] or [•] to decide the channels. For other channels (13-125), the channel will be decided as soon as you enter the channel number.		
Digital TV	For channel number 1-9 press, press [>] or [•] to decide the channels. For other channels (10-99), the channel will be decided as soon as you enter the channel number.		
Digital CATV	For channel number 1-13 press, press [>] or [•] to decide the channels. For other channels (14- 135), the channel will be decided as soon as you enter the channel number.		
minor channels	For channel number 1-9 press, press [>] or [•] to decide the channels. For other channels (10-99), the channel will be decided as soon as you enter the channel number.		

<Hint>

• You can decide the 1-digit channel number by pressing 0 first , then enter desired 1-digit channel number. e.g.) "5": [0]+[5]

• For selecting the channels with [▲ / ▼] you need to press [▶] or [•] to decide the channel number.

• For selecting the minor channels with [▲ / ▼], please make sure the minor channel your are selecting is existed.

 $[\blacktriangle / \mathbf{\nabla}]$ does not skip the non-existed minor channels.

To stop the timer recording in progress

Press [STOP ■] on the front panel of the unit to stop the timer recording in progress.

[STOP ■] on the remote control is not effective.

Checking, canceling, or correcting the timer programming information

1) Press [TIMER].

2) Check the information.



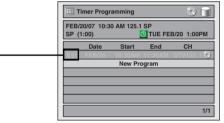
- 3-A) To delete the timer program:
 - 1 Use [▲ / ▼] to select the program you want to delete, then press [OK].
 - 2 Use [▲ / ▼] to select "Delete", then press [OK]. Confirmation window will appear.
 - 3 Use [▲ / ▼] to select "Yes", then press [OK].
- 3-B) To correct the timer program:
 - 1 Use [▲ / ▼] to select the program you want to correct, then press [OK].
 - 2 Use [▲ / ▼] to select "Program Change", then press [OK].
 - 3 Correct the timer program by using $[\blacktriangle / \bigtriangledown / \blacklozenge]$, then press [OK].

4) Press [TIMER] to exit.

Note

- Press [TIMER] to check the timer recording in progress.
- As to the timer recording in progress (which is shown in red in the timer program list), you only can edit the end time. The changes made during recording will be recognized as only specific to that recording in progress and it will not affect the daily or the weekly recording setting.

If the timer program did not complete correctly, the error number appears in the timer programming list.



Each error number means:

E1-22 E37-39	Recording error other than below	E42	No disc when recording
E24	Unrecordable disc	E43	Already 49 titles recorded
E25-26	Copy prohibited program	E44	Already 254 chapters recorded
E29	Disc protected	E45	Copy prohibited program
E30	Disc full	E46	It is impossible to
E35	PCA full *1		record additionally on a disc recorded
E36	Already finalized video format disc		by other units when setting " Make Recording Compatible" to "OFF".
E40	Some portion has not been recorded because of program	E47	Already 600 titles recorded on the HDD
	overlapping. Recording did not start at the start time.	E49	HDD recording is canceled due to the insufficiency of the
E41	Power failed		disc space on the HDD.

- E23, E27, E28, E31, E32, E33 and E34 are not displayed.
- A program with the error number is grayed in the timer programming list.
- Timer program with an error number will be cleared once the entry screen for the program is displayed.
- *1 PCA is a disc's space reserved for recording test.

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Connections

Others

TIMER RECORDING

Hints for Timer Recording

- If there is a power failure or this unit has been unplugged for more than 30 seconds, the clock setting and all timer programming will be lost.
- When recording to a DVD, if a disc is not inserted, the unit will perform the alternate recording to the HDD (refer to page 43).
- When a timer recording is completed, the unit will ask you whether to turn off the unit if there is no timer recording which starts within 4 minutes, except under conditions listed below.
- During playback of HDD or DVD.
- While displaying menus or information on the screen.
- The unit will be turned off automatically if you select "Yes" or if you do not reply in 1 minute.
- When the programmed starting and ending time are earlier than the current time, the setting will not be accepted and be cleared for redoing.
- If the starting time is earlier and the ending time is later than the current time, the recording will start right after you press **[OK]** at step 8 on page 43.
- You cannot change the audio language for the timer recording of digital TV broadcasting.
- Timer recording whose recording time exceeds 12 hours cannot be made.
- It is prohibited to turn off the unit from 4 minutes before the programmed starting time.
- It is prohibited to change channel from 15 seconds before the programmed starting time.
- [REC ●] does not work from 2 minutes before the programmed starting time. If it comes to 2 minutes before the starting time during regular or one-touch timer recording, the recording in progress will be stopped.
- Playback of DVD is prohibited from 2 minutes before the programmed starting time when the recording media is DVD. If it comes to 2 minutes before the programmed starting time during DVD playback, the playback will be stopped.

The Priority of Overlapped Settings

- Timer program which has the earlier start time will be placed first in the timer program list, and be given priority over the programs with the later start time when timer programs overlap.
- When timer programs overlap, the first 2 minutes (at the longest) of the later recording will be cut off.
- When 2 or more timer programs have the same start time, the program set first will be given priority.
- A timer recording of lower priority will be canceled or start from the middle.
- Check the overlapped timer programmings and change the priority if necessary.

When the starting time is the same:

A program set previously (PROG. A) has priority.

PROG. A			
PROG. B			
actual recording	PROG. A		PROG. B
The first 2 m	ninutes (at the longest) will be	cu	t off.

Note for DVD recording

- When the recording time of 2 programs are overlapped, or the end time of a program and the start time of another program is the same, the first 2 minutes (at the longest) of the subsequent program will be cut off.
- If the cut-off portion comes up to 3 minute or more, this program will be displayed with error number E40 in the timer programming list.
- When the end time of the programming currently being recorded and the start time of the subsequent program are same: The beginning of the PROG. B may be cut off.

PROG. A		
PROG. B		
actual recording	PROG. A	PROG. B
The first 2 n	ininutes (at the longest)	 will be cut off.

SPECIAL RECORDING

Time Shift Recording

HDD



Note

- If you press [TIME SHIFT] when the unit is in DVD mode, the output mode will automatically be switched to HDD, and the unit will start the time shift playback of the title being recorded.
- You can also use the special playback functions such as [**44**], [**>>**] etc. during time shift recording mode.
- The programs you recorded with [TIME SHIFT] will not be stored in the title list.
- **[REC •**] is invalid during time shift recording mode.
- You can no longer fast forward the playback when it comes to a few second before the current recording point.
- Time shift recording mode will stop not only when you press **[STOP**] twice, but also when the disc runs out of space, when the recording time exceeds 12 hours, or when it comes to 2 minutes before timer recording.

With [TIME SHIFT], even if you leave your couch while you are watching TV through this unit, you can come back and watch the rest of the program from right where you left at any convenient time with just one touch of a button.



When you leave the TV, press [TIME SHIFT] twice.

With the first press, the unit will start recording the TV broadcast.

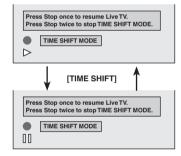
With the second press, the unit will be in the pause mode as soon as it starts the time shift playback (refer to page 66). (It is as if you paused the live TV broadcast.)



When you come back, press [TIME SHIFT] again.

The pause mode will be canceled, and the playback will start from the point you pressed the button for the second time in step 1.

 While viewing the recorded content, you can pause and resume the playback by pressing **TIME SHIFT**].



Press [STOP] once to resume live TV.

Press [STOP] twice to stop time shift mode.

Connections

Overwriting from the Beginning of the Title

You can overwrite the existing title from the beginning.

1) Press [STANDBY-ON の].

Make sure that the TV input is set on the unit.

2) Load the disc that includes a title to be overwritten.

It takes a while to display the title list.

Title list will appear. If the title list does not appear, press [TITLE].

- **3) Press [REC MODE] to select a recording mode.** Refer to "Recording Mode" on page 38.
- Use [▲ / ▼] to select a title to be overwritten, then press [OK].



5) Use [▲ / ▼] to select "Overwrite", then press [OK].



- 6) Select the channel you want to record. (Refer to page 31 on how to select a channel.)
 - e.g.) DVD+RW



7) Press [REC ●].

Overwriting recording starts. The elapsed-time counter starts running.

8) Press [STOP ■] to stop recording. Title name is also overwritten.

This operation may take a while to be completed.

Note

• The remaining recording time is displayed on the bottom right corner of the TV screen during overwriting.

Overwriting in the Middle of the Title

You can overwrite the existing title from the selected position.

- 1) Follow the steps 1, 2 and 4 on the left.
- 2) Use [▲ / ▼] to select "Play", then press [OK]. Playback will start.
- 3) Press [PAUSE II] at the point from which you want to start overwriting.

4) Press [REC ●].

"IIO DVD", display menu, channel, and the time lapse will be displayed as illustrated on the left.

5) Select the channel you want to record. (Refer to page 31 on how to select a channel.)

6) Press [REC ●] again.

Overwriting recording starts.

7) Press [STOP ■] to stop recording.

This operation may take a while to be completed.

Note

- Recording mode of the overwriting title is the same as that of the original (overwritten) title when overwriting in the middle of the title.
- Title name will not be overwritten.

Español

Hints for Overwriting

When you overwrite on the unnecessary title, there were various circumstances such as follows. Please note that following cases only describe the overwriting without any recording mode discrepancy. To avoid accidental deletion please check if there is no important title after the overwriting point.

□ When overwriting title is shorter than the existing title:

(overwriting from the beginning of the title)



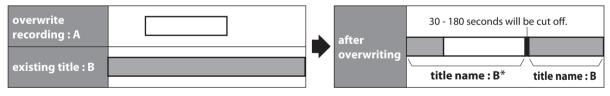
□ When overwriting title is longer than the existing title:

(overwriting from the beginning of the title)



overwrite recording : A			30 - 180 seconds will be cut off.
existing title : B		after overwriting	
existing title : C			title name : A title name : C

When overwriting in the middle of the title:



*Overwritten section and the rest of the sections will have the same title name as the original existing title (B).

Note

- When a title name is overwritten, its index picture is also overwritten.
- "Auto Chapter" interval time is reset at the overwriting start point.
- A chapter mark is put the beginning of the overwrite title when overwriting in the middle of the title.

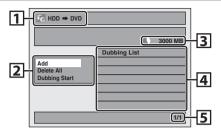
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DUBBING

Information on Dubbing

You can dub the contents of the HDD to DVD or vice verse. Before you start dubbing, refer to page 37 to see the recording compatibility.

Guide to Dubbing Menu Display



- 1 Dubbing direction
- 2 Dubbing menu
- 3 Remaining recordable space
- 4 Dubbing list
- 5 Current page number / total number of pages

Recording Mode for Dubbing

"High"

This unit is compatible with the high speed dubbing from HDD to DVD.

High speed dubbing offers you the dubbing speed of 12 times the SLP mode dubbing. To perform the high speed dubbing, set the recording mode to "High".

- Duration of high speed dubbing will vary depending on the recording mode or the title amount.
- High speed dubbing is not available when;
- recording mode is set to other than "High".
- dubbing from a DVD to the HDD.
- there is not enough space in the disc.
- duration of the title is more than 5 hours.
- During dubbing (except for high speed dubbing), you only can use [STOP ■] on the front panel, and any other buttons will be invalid.

"Auto"

When "Auto" is selected as a recording mode, the unit calculates how much time is available on the disc and selects the best recording mode available automatically.

- "Auto" is available only when dubbing from HDD to DVD.
- The recording may be cut short when the available recording space of the disc is too limited.

Note on dubbing

- During normal dubbing, you can watch the playback picture of the title being dubbed (the audio cannot be changed). During high speed dubbing, however, the playback picture will not appear.
- Dubbing of a "copy-once only" program is not possible with this unit.
- If you stop the dubbing halfway, the contents will be dubbed up to the point where you stop the dubbing (except for the high speed dubbing). With high speed dubbing, nothing will be dubbed if you stop it halfway.
- To stop the dubbing in progress, press [STOP ■] on the front panel.

Other modes

Refer to page 38 for the information on other modes.

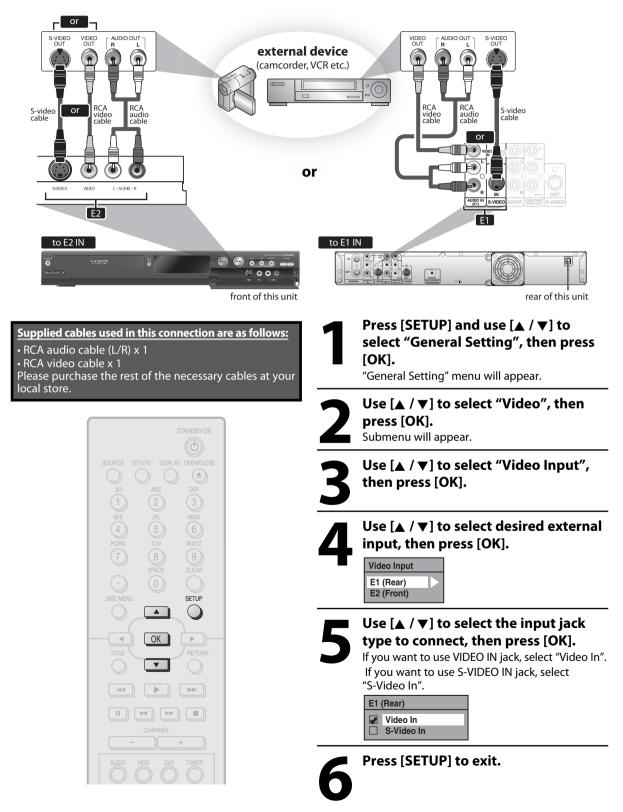
Function Setup

Español

Connections

Settings for an External Device

Connect the external device properly to the unit by using input jacks either E2 (Front) or E1 (Rear). When connecting an external device of monaural output to this unit, use AUDIO L jack of E2 (Front). Use S-video or the RCA audio/video cables for this connection.



DUBBING

Recording from an External Device

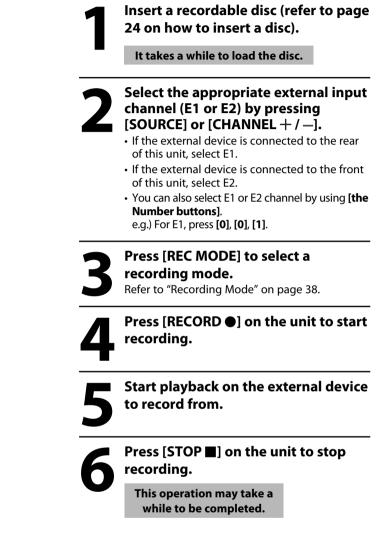
Before recording from an external device, refer to the instructions for the connection on page 50.





If you are recording to the HDD, press **[HDD]** first, then proceed to step 2.

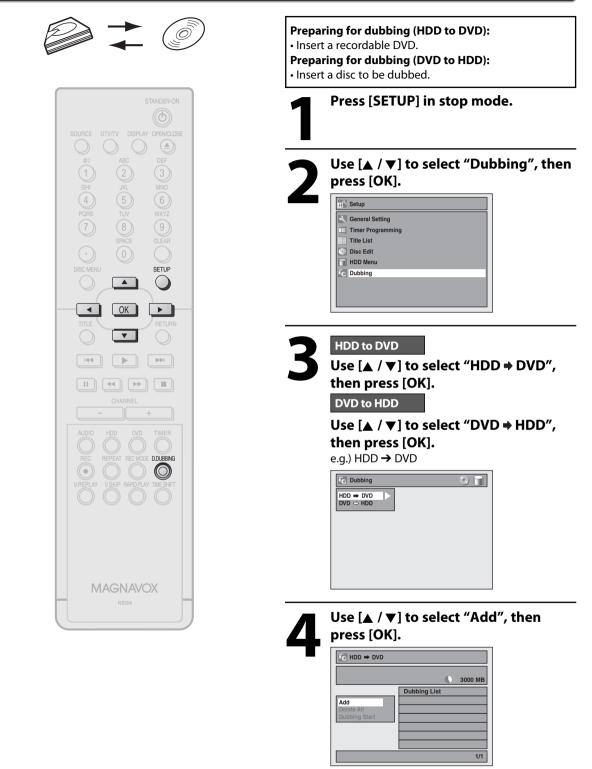
If you are recording to a disc, press [DVD] first.



Introduction

DUBBING

Selected Title Dubbing



• If you have registered any dubbing before, they will be listed in the dubbing title list.



Basic Setup

Editing

Españo

Please select REC MODE High HQ SP SPP LP EP SLP Auto **Dubbing Titles** 500 ME 3000 MB

Use [< / >] to select a desired

recording mode, then press [OK].

Confirmation message will appear.

- Depending on the dubbing direction, the available recording mode varies.
- When dubbing from HDD to DVD, you can select "High" to perform the high speed dubbing (refer to "Recording Mode for Dubbing" on page 49 for more details).

Use $[\blacktriangle / \nabla]$ to select "Yes", then press [OK].



HDD ⇒ DVD

It may take awhile to prepare for the dubbing.

To stop the dubbing in progress:

One-touch Dubbing...

To dub the contents in a DVD which is finalized on

During playback of the title you want to dub, press [D.DUBBING].

If you are playing back a DVD, DVD to HDD dubbing will

If you are playing back HDD, HDD to DVD dubbing will start right away.

- The dubbing will start from the beginning of the title being played back.
- The unit will dub only the title being played back.
- When dubbing from HDD to DVD, recording mode will automatically be set to "High" whenever the conditions are met (refer to page 49). Otherwise, the last selected recording mode will automatically be applied.

To stop the dubbing in progress:

Press [STOP] on the front panel.

占

The title is now registered in the dubbing list.

Use $[\land / \lor / \lor / \lor]$ to select a desired

CH10 SP

1/6

title, then press [OK].

ABCDE 12:00AM (10:00:00) JAN/ 1/07

1

e.g.) HDD

Title List



Repeat steps 4 to 5 until you register all the titles to be dubbed.

To delete a title:

- **1** Go to the dubbing list, then use $[\blacktriangle / \bigtriangledown]$ to select a title. Then press [OK].
- **2** Use $[\blacktriangle / \bigtriangledown]$ to select "Delete", then press [OK].
- 3 Use [▲ / ▼] to select "Yes", then press [OK].

To move a title:

- **1** Go to the dubbing list, then use $[\blacktriangle / \nabla]$ to select a title. Then press [OK].
- 2 Use [▲ / ▼] to select "Move", then press [OK]. 3 Use [▲ / ▼] to select a desired insert point,
- then press [OK].

To erase all the titles in the dubbing title list:

- 1 Use [▲ / ▼] to select "Delete All" in the dubbing menu, then press [OK].
- 2 Use [▲ / ▼] to select "Yes", then press [OK]. Final confirmation message will appear.
- **3** Use **[**▲ / **▼]** to select "Yes", then press **[OK]**.
- To go back and forth between dubbing menu and dubbing list, use $[\blacktriangleleft / \triangleright]$.

After adding all the titles you want, use [▲ / ▼] to select "Dubbing Start" in the dubbing menu, then press [OK].

Dubbing will start.

Press [STOP] on the front panel.

With one-touch dubbing, you can start dubbing right away with just one touch.

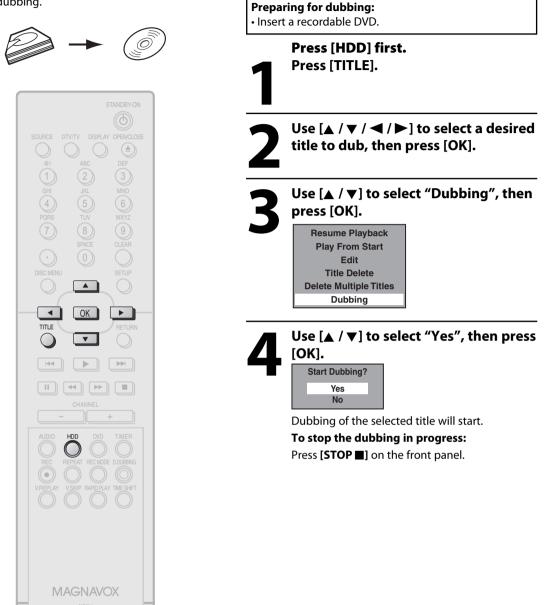
other unit, use this function.

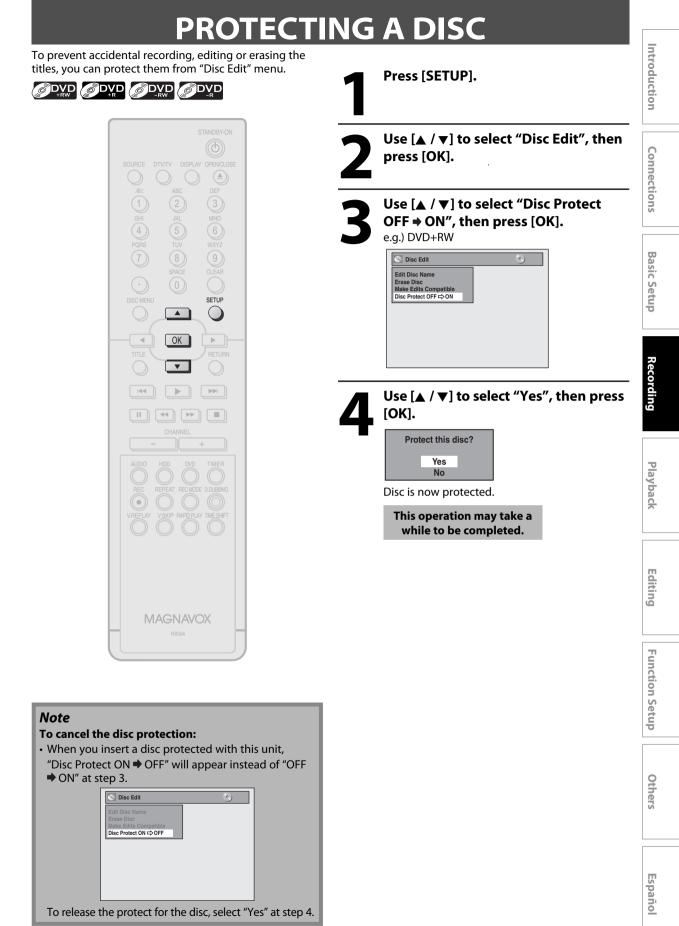
start right away.

DUBBING

One Title Dubbing (HDD to DVD only)

This function lets you select one specific title from the title list for dubbing.





PLAYING THE DISCS ON OTHER DVD PLAYERS

Finalizing a Disc



You will need to finalize DVD+R, DVD-RW or DVD-R to play them back on other DVD players.

Finalizing may take several minutes up to an hour. A shorter recording period on the disc will require a longer time period for finalization. Do not unplug the power cord during finalization.



Note

- Once you have finalized a DVD+R/ DVD-R, you cannot edit or record anything on that disc.
- There is no need to finalize DVD+RW.
- When you insert a DVD-RW finalized with this unit, "Undo Finalize" will appear instead of "Finalize".

S Disc Edit	Ð
Edit Disc Name Erase Disc Undo Finalize Disc Protect ON COFF	

To release the finalizing for the disc, select "Undo Finalize" at step 3.

* DO NOT power off during finalization, this will result in malfunction.

Press [SETUP].



Use $[\blacktriangle / \heartsuit]$ to select "Disc Edit", then press [OK].

"Disc Edit" menu will appear.



Use [▲ / ▼] to select "Finalize", then press [OK].

Use [▲ / ▼] to select "Yes", then press [OK].

e.g.) DVD+R, DVD-R



Finalizing will start.

Finalizing 90%

To cancel finalizing...

(DVD-RW only)

• To cancel finalizing at step 4, press [STOP ■], select "Yes" with [▲ / ▼], then press [OK]. Finalizing is canceled and the unit will be in stop mode.



- If ^O appears when pressing [**STOP ■**], you cannot cancel finalizing because the finalizing has been in certain progress.
- When selecting "No" and press [OK] or [RETURN], finalizing will be continued.
- You cannot cancel finalizing the DVD+R/DVD-R once it has started.

This operation may take a while to be completed.

Finalizing is completed.

Auto Finalizing



You can finalize discs automatically using this function. You can use this function to finalize discs after finishing all timer recordings and at the end of the disc space.

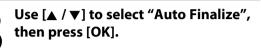


"General Setting" menu will appear.



Use [▲ / ▼] to select "Recording", then press [OK].

"Recording" menu will appear.



Use [▲ / ▼] to select "Disc Full" or "End of Timer Rec", then press [OK].

Auto Finalize
Disc Full
End of Timer Rec

Use [▲ / ▼] to select "ON", then press [OK].

e.g.) "Disc Full"

Dis	c Full	
	ON	
	OFF	

Your setting will be activated.



Press [SETUP] to exit.

Españo

Others

INFORMATION ON PLAYBACK

Before you play back DVD, read the following information.

Playable Discs and Files

This unit is compatible to play back the following discs. To play back a DVD, make sure that it meets the requirements for region codes and color systems as described below. You can play back discs that have the following logos will play back on the unit. Other disc types are not guaranteed to play back.

Playable discs DVD-video		
DVD+RW	Ľ	ReWritable
DVD+R		VU-R
DVD-RW (Finalized video mode discs only)		
DVD-R (Finalized video mode discs only)	R	
CD-DA (audio CD)		
video CD	DISITAL VIDEO	VIDEO CD
CD-RW	COMPACT DISC DISTAL AUDIO ReWritable	(ReWritable)
CD-R		
Playable files	Me	dia
CD-DA	_	
JPEG MP3	CD-F	W/-R
JPEG		C i

is a trademark of DVD Format/Logo Licensing Corporation.

Unplayable Discs

The following discs will not play back on this unit.

- CD-ROM
- DVD-RAM
- Video Single Disc (VSD)

Compact Disc-Interactive (CD-I)

- DVD-ROM
- DVD-audio
- Unfinalized disc
- DVD contains MP3/JPEG and DVD or CD contains Windows Media[™] Audio/DivX[®] files
- DVD-R or DVD-RW recorded in VR mode or non compatible recording format

On the following disc, the sound may not be heard.

• Super audio CD - Only the sound on the CD layer can be heard. The sound on the high-density super audio CD layer cannot be heard.

Color Systems

DVD is recorded in different color systems throughout the world. The most common color system is NTSC (which is used primarily in the United States and Canada). This unit uses NTSC, so DVD you play back must be recorded in the NTSC system. You cannot play back DVD recorded in other color systems.

Region Codes

This unit has been designed to play back DVD with region 1. DVD must be labeled for ALL regions or for region 1 in order to play back on the unit. You cannot play back DVD that are labeled for other regions. Look for the symbols on the right on your DVD. If these region symbols do not appear on your DVD, you cannot play back the DVD in this unit.



The number inside the globe refers to region of the world.

A DVD labeled for a specific region can only play back on the unit with the same region code.

PBC (playback control) for Video CD

You can select images or information on the menu screen by activating the PBC (playback control) function of the video CD.

This unit conforms to ver.1.1 and ver. 2.0 of video CD standard with PBC function.

Ver.1.1 (without PBC function): You can enjoy playback picture as well as music CD.

Ver.2.0 (with PBC function): While using a video CD with PBC function, "PBC" appears on the TV screen.

Note

- PBC setting turns to "ON" when loading video CD with PBC function, thus, even after setting PBC to "OFF" and ejecting the video CD then reloading the video CD, this setting turns to "ON" automatically.
- Some operations cannot be performed while PBC function is on. Cancel PBC function temporarily to perform those operations by following the instruction below.
- 1) Press [SETUP].
- 2) Use [▲ / ▼] to select "CD Playback Mode", then press [OK].

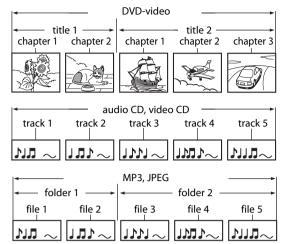
"CD Playback Mode" menu will appear.

- 3) Use [▲ / ▼] to select "PBC (Video CD only)", then press [OK].
- Use [▲ / ▼] to select "ON" or "OFF", then press [OK]. Your setting will be activated.

You can play back interactive software using menu screens. Refer to instructions in the video CD.

Hint for HDD / DVD Playback

The contents of HDD / DVD are generally divided into titles. Titles may be further subdivided into chapters.



Connections

BASIC PLAYBACK

Direct Playback





If you are playing back the titles in HDD, press [HDD] first, then proceed to step 2. If you are playing back the titles in DVD, press [DVD] first.

Insert a disc (refer to page 24 on how to insert a disc).



-Align the disc to the disc tray guide.

* Make sure the disc is compatible with this unit. (Refer to page 58 for the list of compatible discs.)

It may take a while to load the disc.



Press [PLAY ►] to start playback.

If you are playing back a DVD-video or video CD with PBC function, a menu may appear. Refer to "Using the Title / Disc Menu" on page 64.



Press [STOP] once to stop playback temporarily.

• Refer to "Resume Playback" on page 65.

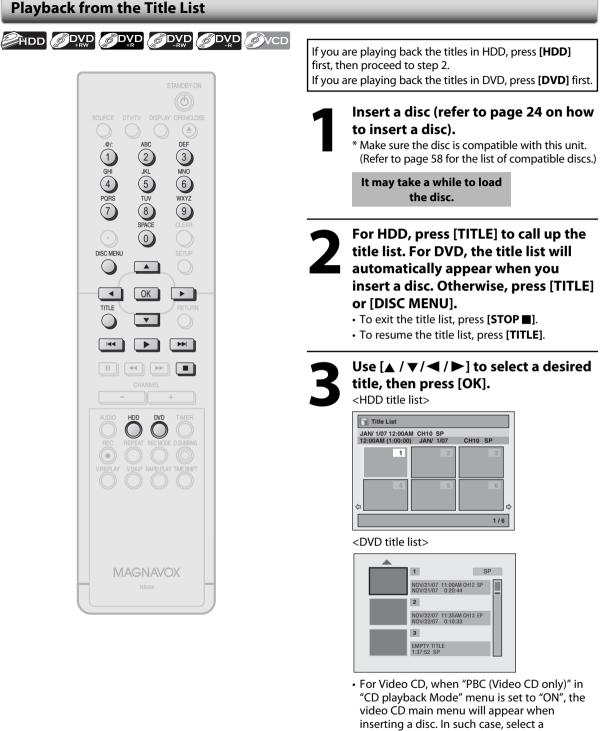
Note

- Some discs may start playback automatically.
- You can select images or information on the menu screen by activating PBC (playback control) function (page 59).

Connections

Basic Setup

Recording



numbered menu with [the Number buttons].
Press [▶▶] (for HDD) / [▶] (for DVD) to display the next page, and press [I◄] (for HDD) / [◄] (for DVD) to display the previous page.

Español

Note

- Some discs may start playback automatically.
- You can also start playback by pressing [PLAY ►] instead of [OK] at step 3.

Instructions continue on the next page.

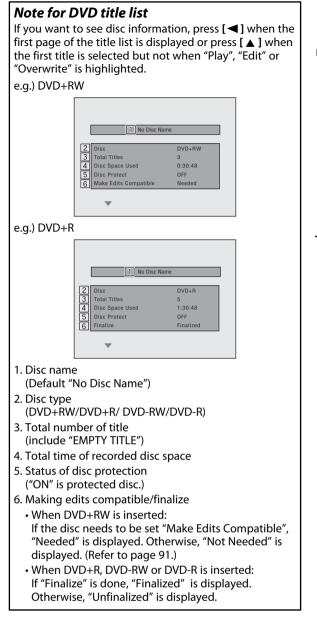
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:k

Editing

Function Setup

BASIC PLAYBACK





Use [▲ / ▼] to select "Play" (for DVD), or select "Resume Playback" or "Play from Start" (for HDD), then press [OK].

e.g.) DVD

Play	1	SP
Edit Overwrite	NOV/21/07 11:00AM CH1: NOV/21/07 0:20:44	2 SP
	2	
	NOV/22/07 11:35AM CH1 NOV/22/07 0:10:33	3 EP
	3	
	EMPTY TITLE 1:37:52 SP	

Playback will start.



Press [STOP] once to stop playback temporarily.

• Refer to "Resume Playback" on page 65.

BASIC PLAYBACK

Playing Back an Audio CD and a CD-RW/-R with MP3 / JPEG Files

Ó)CD





Note

- The audio source of MP3 files cannot be recorded as digital sound by an MD or DAT deck.
- Files whose extension is other than ".mp3(MP3)" or ".jpg / .jpeg(JPEG)" will not be listed.
- Some unplayable folders or files may be listed due to the recording status.
- High-resolution JPEG files take longer to be displayed.
- Progressive JPEG files (JPEG files saved in progressive format) cannot be played back on this unit.

Press [DVD] first.

Insert a playable disc (refer to page 24 on how to insert a disc).

* Make sure the disc is compatible with this unit. (Refer to page 58 for the list of compatible discs.)

It may take a while to load the disc.

When an audio CD is inserted, track list will appear.

When a CD-RW/-R with MP3/JPEG files is inserted, file list will appear.

- To exit the track/file list, press [STOP ■].
- To resume the track/file list, press [TITLE].

Use [▲ / ▼] to select a desired folder or track/file, then press [OK]. e.g.) Audio CD

File		t AME	
2	A		仓
∟ (5)	B 1	JPEG file1	
(E)	_	JPEG file2	
3) 3) 3)	-	MP3 file1	
3	4	MP3 file2	
3) 3)		MP3 file3	
- 3J	6	MP3 file4	$\hat{\Omega}$
			1/ 2

When selecting track/file:

Playback will start.

When selecting the folder (Not available for audio CD): The files in the folder will appear.

Use $[\land / \lor]$ to select the file or folder you want to play back, then press [OK].

- Press [PLAY ▶], [OK] or [▶] to move to any lower hierarchies.
- Press [] or [**RETURN**] to move back to the previous hierarchy.

Hints for audio CD tracks and MP3 / JPEG files:

- Folders are shown by $\Gamma \subseteq$.
- Audio CD tracks are shown by
- MP3 files are shown by 3♪.
- JPEG files are shown by 🔟 .
- The system can recognize up to 255 folders, up to 99 tracks/999 files.
- Letters of a file/folder name overflowing the given space will be displayed as "...". Unrecognizable characters will be replaced with asterisks.
- If there are no files in the folder, "No Files" will be displayed.

It is recommended that files to be played back in this unit are recorded under the following specifications: <MP3>

- Sampling frequency : 44.1 kHz or 48 kHz. Constant bit rate

: 6,300 x 5,100 dots.

: 32 x 32 dots.

: 112 kbps - 320 kbps

<JPEG>

- Upper limit
- Lower limit • File size of image maximum: 12 MB.
- EN 63

Introduction

Connections

Others

Playing Back an Audio CD and a CD-RW/-R with MP3 / JPEG Files (cont'd)

Kodak Picture CD

The Picture CD is a service to convert photographs taken by a conventional film camera into digital data and write the data on a CD. You can enjoy picture images on the TV set by playing back the Picture CDs.

For details of Kodak Picture CD, contact a shop that provides developing service of Kodak Inc.

1)Press [TITLE].



• To exit the Picture CD thumbnail List, press [TITLE] again or press [STOP ■].

Arrow icons mean the title list includes a next or previous page. Use $[\blacktriangleleft/\blacktriangleright]$ in the direction of the icon you wish to follow. You can also quick review the six thumbnails at once between the first and last pages by pressing $[!\dashv < / \triangleright >]$.

2) Use [▲ / ▼ / ◀ / ▶] to select a desired track to be played back, then press [PLAY ▶] or [OK].

An image will be played back from the selected track and go to the next one in turn.

3)Press [STOP ■] to stop playback.

Notes on JPEG and Kodak Picture CD:

• After track is displayed for 5 seconds or 10 seconds (set in the "Slide Show" on page 69) the display moves to the next track.

During JPEG or Kodak Picture CD playback, press [▶] or [◀] to rotate a picture 90 degrees clockwise or counterclockwise respectively.

(Not available when the display menu appears.)

Using the Title / Disc Menu



DVD or video CD with PBC function may contain a title list, which describes the contents of the disc, or a disc menu, which guides you through the available functions in the disc.

Press [DVD] first.

1)Insert a disc (refer to page 24 on how to insert a disc).

* Make sure the disc is compatible with this unit. (Refer to page 58 for the list of compatible discs.)

It may take a while to load the disc.

- 2)Press [TITLE] or [DISC MENU] to call up the title list or disc menu.
- 3)Use [▲ / ▼ / ◀ / ▶] to make a selection, and then press [OK] to enable your selection.

4)Press [STOP ■] to exit.

Note

- You can select a numbered menu with [the Number buttons] also.
- Menus vary among discs. Refer to the information accompanying the disc for details.
- [TITLE] or [DISC MENU] will not always be active with all DVD.
- For video CD, when "PBC (Video CD only)" in "CD Playback Mode" menu is "ON", the video CD main menu will appear when inserting a disc.

Pause

1) During playback, press [PAUSE]].

Playback will be paused.



2)Press [PLAY ►] to return to the normal playback.

Note

• On DVD, set "Still Mode" to "Field" in "Playback" menu if pictures in the pause mode are blurred. (Refer to page 99.)

SPECIAL PLAYBACK

Resume Playback

You can play back from where you stopped playing back the disc last.

1)During playback, press [STOP ■].

The resume message will appear.

Resume ON	

2)Press [PLAY ►].

In a few seconds, playback will resume from the point at which it stopped last. You can resume playback at the same point even if you turn off the unit (HDD/DVD only).

To cancel the resume playback and start playing back the disc from the beginning, press [**STOP** ■] again while the playback is stopped.

For HDD:

You can set a resume point per every title.

For DVD+RW/+R, DVD-RW/-R, Video CD, Audio CD, MP3 files and JPEG files:

You can set only one resume point per disc.

Note

- For MP3/JPEG files, playback will resume from the beginning of the file at which playback was stopped.
- Some video CD with the PBC function resume playback from the beginning of the track.

Fast Forward / Fast Reverse Playback



1)During playback, press [▶▶] or [◄◀].

Every time you press [▶▶] or [◄◀], approximate speed will be changed as follows.

Fast forward or fast reverse playback across titles (for HDD/DVD) or files (for MP3) is not possible.



For video CD, approximate forward/reverse speeds are 2x, 8x, 16x.

For audio CD, MP3 files, approximate speed is fixed at 8x with sound (indicated with >>>> / ><=>).

2)Press [PLAY ►] to return to the normal playback.

Note

• Forward/reverse speed will be indicated with icons as follows.

forwar	d (approx. speed)
2x:	
20x:	
40x:	> +++
reverse	e (approx. speed)
5x:	
20x:	
40x:	

Variable Skip / Variable Replay

During playback, you can skip forward or backward by the amount of time you set in "Playback" menu. To set the time amount, refer to "**B** Variable Skip / Replay" on page 99.

During playback, press [V.SKIP] if you want to skip forward. Press [V.REPLAY] if you want to skip backward.

Rapid Playback



Rapid playback function is available only during playback.

This function is available only on discs recorded in the Dolby Digital format, and plays back in a slightly faster/ slower speed while keeping the sound quality just as normal playback.

1) During playback, press [RAPID PLAY].

- Press [RAPID PLAY] once during playback. Plays back approximately at 0.8 times of normal playback.
- Press [RAPID PLAY] twice during playback. Plays back approximately at 1.3 times of normal playback.
- Press [RAPID PLAY] 3 times to play back in normal speed. No effects.

2) Press [PLAY ▶] to continue the normal playback.

Note

- Audio (language) setting cannot be changed while using this mode.
- This feature may not work at some point in a disc.
- Audio is PCM during rapid playback mode except when using digital audio connection.
- When using digital audio connection (COAXIAL), the LPCM sound (2 channel) will be output.

Introduction

Function Setup

Españo

SPECIAL PLAYBACK

Step by Step Playback



1) During playback, press [PAUSE]].

Playback will be paused and sound will be muted.

2) Press [>>|] repeatedly.

Playback will advance one frame (or step) at a time when you press [>>] with the sound muted.

To play back step by step backward:

Press [I

Every time you press the button, the playback will go backward by one frame.

• Press and hold [I◄◀] / [►►I] to reverse / advance continuously.

3)Press [PLAY ▶] to continue the normal playback.

Note

 Only step by step forward playback is available for playing back video CD.

Slow Forward / Slow Reverse Playback



1) During playback, press [PAUSE]]. Then press [▶▶] or [◄◀].

Every time you press [>>] or [<], approximate speed will be changed as follows. (The sound will remain muted.)



To return to the normal playback, press [PLAY ▶].

Note

- Forward/reverse speed will be indicated with icons as follows.
- forward (approx. speed) 1/16x: 1/8x: 1/3x: reverse (approx. speed) 1/16x: 1/8x:
- 1/4x:
- Only slow forward is available when playing back video CD.

Time Shift Playback

HDD

You can play back a title being recorded from the beginning while recording continues.

1) During recording, press [PLAY ▶].

Playback of the title you are recording will start from the beginning.

• Elapsed playback time will be displayed in the front panel display.

2) To stop the playback, press [STOP] once.

• The front panel display will switch back to show the elapsed recording time.

Note

- If you press [STOP ■] twice, it will stop the recordina.
- You cannot use the OTR function during time shift playback.

Simultaneous Playback and Recording

HDD

6 DVD

With regard to HDD, you can continue recording a program while playing back another title in the same component (HDD).

To do so, press [TITLE] during recording and select a title you like to play back, and then press [PLAY ▶]. (You can also start the playback from the title list menu.)

To playback a title being recorded while continuing to record, refer to "Time shift playback" above (available only with HDD).

Note

• Video CD, audio CD, MP3/JPEG files recorded on a disc can also be played back during HDD recording.

SPECIAL PLAYBACK



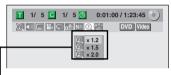
1) During playback, press [DISPLAY].

2)Use [◀/▶] to select (2), then press [OK] within 1 second or wait for 1 second to display the selection menu.

e.g.) DVD-video

T	1/	5 C	1/	5 🕓	0:01:00) / 1:23:45 🕘
	()) [-) 🔐 🤇		NR 🕀	ti i	DVD Video

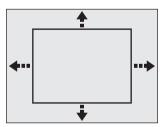
3)Use [▲ / ▼] to select a desired zoom factor to zoom, then press [OK].



Zoom menu will appear. There are four options (x1.0, x1.2, x1.5 and x2.0), these are displayed excluding the current zoom rate.

Zoom area will be displayed.

4)Use [▲ / ▼ / ◀ / ▶] to select a desired zoom position, then press [OK].



Zoom playback will start.

Note

- When selecting a smaller factor than the current one, the zoom area will not be displayed.
- To exit the zoom menu, press [DISPLAY] again at step 1.
- To cancel the zoom function, select "x1.0" using [▲ / ▼], then press [OK].
- You cannot slide the zoomed picture on some JPEG files.

Marker Setting



This feature allows you to assign a specific point on a title to be called back later.

1) During playback, press [DISPLAY].

2) Use [◀/▶] to select m , then press [OK] within 1 second or wait for 1 second to display the marker list.

e.g.) DVD-video

Т	1/	5	С	1/ 5	9	0:01	:00 / 1:23	8:45 💽
0			kς	d.	NR 🕀	Ľ.	DVD	Video

3)Use [▲ / ▼] to select a desired marker number. When it reaches the desired point, press [OK].

1 / 5 1 / 5 3 / 0:01:00 / 1:23:45
🖉 🕕 드 🔐 💭 📩 NF 🔍 😂 🛛 DVD Video
*
★
<u>\$</u>
\triangleright

The title (track) number and the time will be displayed.

4) To return to the marker later:

Use $[\land / \lor]$ to select the desired marker number, then press [OK].

Note

- To clear a marker, select the marker number to be cleared, then press [CLEAR].
- All markers will be erased when you operate these operations listed below.
- opening the disc tray (CD/DVD only)
- turning off the power (CD/DVD only)
- make additional recording on the disc (DVD only)
- editing any title (DVD only)
- dividing the title (HDD only)
- deleting a scene of the title (HDD only)
- You can mark up to 6 points.
- Marker setting is not available when you play back the video CD with PBC function.

Connections

Introduction

Others

Function Setup

Repeat Playback

Available repeat function may vary depending the discs.

- 1)During playback press [DISPLAY], then proceed to step 2), or press [REPEAT] then proceed to step 3).
- 2)Use [◀/▶] to select 💭 , then press [OK] within 1 second or wait for 1 second to display the selection menu.

🔍 🕕 🔚 🖵 📩 NF 🕄 😂 🛛 DVD Video	1/	5 🖸	1/ 5 🤇	0:01	:00 / 1:23:45 💽
			D 🔤 NR	0,5	DVD Video

3)Use [▲ / ▼] to select a desired repeat type, then press [OK].

e.g.) HDD/DVD-video



e.g.) audio CD, video CD

1/ 5 🕓	0:00:15 / 0:05:00	
	CD	
✓ OFF Track All A – B		

e.g.) MP3/JPEG files



The selected repeat playback will start.

T 1/ 5 C 1/ 5 C	0:01:00 / 1:23:45
	DVD
	Repeat Title

Title (HDD/DVD only):

The current title will be played back repeatedly.

Chapter (HDD/DVD only):

The current chapter will be played back repeatedly.

All (DVD/audio CD/video CD without PBC function/ CD with MP3, JPEG):

All titles in the media will be played back repeatedly.

A-B (HDD/DVD/audio CD/video CD without PBC function only):

Desired section can be played back repeatedly. 1) Use [▲ / ▼] to select "A-B", then press [OK]. 2) Press [OK] at the desired starting point A. 3) Press [OK] at the desired ending point B.

Track (audio CD/video CD without PBC function/ MP3 or JPEG files only):

The current track or file will be played back repeatedly.

Group (MP3/JPEG files only):

The current folder will be played back repeatedly.

Note

- Point B for the repeat A-B playback should be set within the same title or track as point A.
- To cancel the repeat playback, select "OFF" at step 3. The repeat setting will also be canceled when you stop playback.
- You cannot select "Group" during the random playback.
- Repeat playback is not available when you play back the video CD with PBC function.

Random Playback

OVCD OCD MP3 JPEG

You can play back a disc randomly instead of playing back in the original order.

1)Press [SETUP].

2) Use [▲ / ▼] to select "CD Playback Mode", then press [OK].

"CD Playback Mode" menu will appear.

3)Use [▲ / ▼] to select "Random Play", then press [OK].

Random playback will start.

Note

- To cancel random playback, press [STOP ■] twice during random playback. "OFF" appears on the TV screen.
- For video CD with PBC function, the PBC setting will be switched to off automatically when you start random playback.



Program Playback

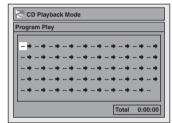
You can program the disc to play back in your desired order.

1)Press [SETUP].

2) Use [▲ / ▼] to select "CD Playback Mode", then press [OK].

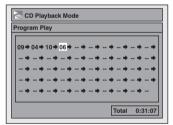
"CD Playback Mode" menu will appear.

- 3)Use [▲ / ▼] to select "Program Play", then press [OK].
- 4) Use [▲ / ▼] to select a desired track, then press [OK] or [▶].



Repeat this step until you program all the desired tracks.

5)Press [PLAY ►].



Program playback will start.

Note

- To erase tracks you selected, press [CLEAR] at step 4.
- You can make program settings up to 50 tracks.
- To cancel program playback, press [STOP ■] twice during program playback. "OFF" appears on the TV screen.
- Program information will be retained until you power off the unit or open the disc tray.
- You may also select a desired track using [the Number buttons] at step 4.
- For video CD with PBC function, the PBC setting will be switched to off automatically when you start program playback.

Slide Show

JPEG

You can select the display time between 5 seconds and 10 seconds.

1)Follow steps 1 and 2 in "Random Playback" on page 68.

2)Use [▲ / ▼] to select "Slide Show", then press [OK].

3)Use [▲ / ▼] to select the display time, then press [OK].

4)Press [SETUP] to exit.

Note

• Large-size JPEG files take a few moments to be displayed.

SEARCH



Using [I◄◀] / [▶▶I]

1) During playback, press [►►I] to skip the current title or chapter and move to the next.

The title or chapter will move forward by one at a time.

• If there is no chapter in one title, the current title will be skipped.

To go back to the beginning of the current title or chapter, press [I

Press it repeatedly to go to the previous title or chapter. The title or chapter will move backward one at a time.

Note

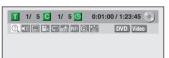
• With regard to HDD, chapter search using [I◄◀] / [▶➡]] is available only within the same title.

Using [DISPLAY]

1) During playback, press [DISPLAY].

2)Use [◀/▶] to select 🙆 , then press [OK].

e.g.) DVD-video



The number next to 🔟 will be highlighted.

3)Title:

Use [▲ / ▼] or [the Number buttons] to enter a desired title number to search, then press [OK]. Title search will start.

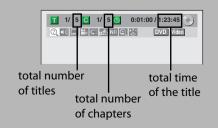
Chapter:

Press [▶] to move to the number next to C for chapter.

Use $[\land / \lor]$ or [the Number buttons] to enter a desired chapter number to search, then press [OK]. After the search, playback will start automatically.

Note

 In search mode display, total numbers of each search contents (title/chapter/time) are shown as a denominator.



Track Search

OVCD OCD MP3 JPEG

Using [I◀◀] / [▶▶I]

1)During playback, press [▶▶] to skip the current track/file and move to the next.

The track/file will move forward one at a time. To go back to the beginning of the current track/file, press [I◄◀].

Press it repeatedly to go to the previous track/file. The track/file will move backward one at a time.

Using [DISPLAY]

1) During playback, press [DISPLAY].

2)Use [◀/▶] to select ②, then press [OK]. e.q.) audio CD

g.) audio CD

1/ 5 🕓	0:00:15 / 0:05:00	
	CD	

e.g.) MP3 files



The number next to 🔟 will be highlighted.

3)Use [▲ / ▼] or [the Number buttons] to enter a desired track/file number to search, then press [OK].

After the search, playback will start automatically.

Note

- During CD playback you can enter a track number directly using [the Number buttons] for track search without displaying the menu.
- Track search is not available when you play back the video CD with PBC function.



1) During playback, press [DISPLAY].

2)Use [◀/▶] to select 🕜 , then press [OK].

e.g.) DV	/D-video
----------	----------



1 1/5 3 0:00:15/0:05:00 () 1 9 5 5 0:00:15/0:05:00 () 1/5 5 0:05

The number next to 🔟 will be highlighted.

To move to the number next to 🙆 , press [>].

When time search is not available, ond time counter are not displayed.

3)Use [▲ / ▼ / ◀ / ▶] or [the Number buttons] to enter a desired time to search, then press [OK]. After the search, playback will start automatically.

Note

- Time search is available only in the same track, file or title.
- Time search is not available when you play back the video CD with PBC function.

SELECTING THE FORMAT OF AUDIO AND VIDEO

You can select the format of audio and video as you prefer depending on the contents of the disc you are playing back.

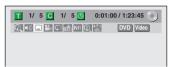
Switching Subtitles



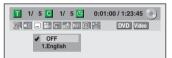
DVD-video may have subtitles in 1 or more languages. Available subtitle languages can be found on the disc case. You can switch subtitle languages anytime during playback.

1) During playback, press [DISPLAY].

e.g.) DVD-video



3)Use [▲ / ▼] to select a desired subtitle language, then press [OK].



Subtitle will be displayed in the selected language. When selecting "OFF", subtitle will disappear.

Note

- Some discs will only allow you to change the subtitle from the disc menu. Press [TITLE] or [DISC MENU] to display the disc menu.
- If a 4-digit language code appears in the subtitle menu, refer to the "LANGUAGE CODE" on page 109.

Switching Audio Soundtrack



When playing back a DVD-video recorded with 2 or more soundtracks (these are often in different languages), you can switch them during playback. When playing back video CD, audio CD you can switch "L/R"(stereo), "L"(left) or "R"(right).

- 1) During playback press [DISPLAY], then proceed to step 2), or press [AUDIO] then proceed to step 3).
- 2) Use [◄/▶] to select 🔊 , then press [OK] within 1 second or wait for 1 second to display the selection menu.
- 3)Use [▲ / ▼] to select a desired audio soundtrack or audio channel, then press [OK].

For DVD-video

· Audio soundtrack will switch.



• If the title contains both main and sub audio, you can further select "L" (main), "R" (sub), or "L/R" (mixed of main and sub).

For audio CD, video CD

Audio channel will switch.

e.g.) audio CD



Note

• Some discs will only allow you to change the soundtrack from the disc menu. Press [TITLE] or [DISC MENU] to display the disc menu.

Switching Virtual Surround System MP3

You can enjoy stereophonic virtual space through your existing 2 channel stereo system.

1) During playback, press [DISPLAY].

2)Use [◀/▶] to select 😂 , then press [OK] within 1 second or wait for 1 second to display the selection menu.

e.g.) DVD-video

1/	5 🖸	1/ 5 🕓	0:01:00	1:23:45
		D 📩 NR 🕃	3	DVD Video

3)Use [▲ / ▼] to select "OFF", "Type 1" or "Type 2", then press [OK].

e.q.) DVD-video



OFF : no effect

- Type 1 : natural effect
- Type 2 : emphasized effect

Note

- Select "OFF" in a case sound is distorted.
- The setting will be kept even when the unit is turned off.

Switching Camera Angles

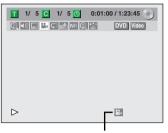
ODVD

Some DVD-video have scenes shot from 2 or more angles. Angle information should be on the disc case if the disc contains multi-angle scenes.

1) During playback, press [DISPLAY].

2)Use [◀/▶] to select 🕎 , then press [OK].

e.g.) DVD-video



Angle icon appears when a switching camera angle is available.

Angle will switch each time you press [OK].

Note

• Angle icon does not appear on the TV screen in a case you set "Angle Icon" to "OFF" in "Playback" menu. Refer to page 99.

Reducing Block Noise

OVCD

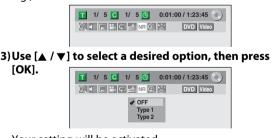
This function reduces noise in the playback picture.

1) During playback, press [DISPLAY].

2)Use [◀/▶] to select NR, then press [OK] within 1 second or wait for 1 second to display the selection menu.

e.g.) DVD-video

[OK].



Your setting will be activated.

- OFF : When playing back titles with a few noises such as DVD-video.
- **Type 1**: For the titles recorded in long time mode such as SLP mode.
- **Type 2**: Same as type 1, only more effective.

Españo

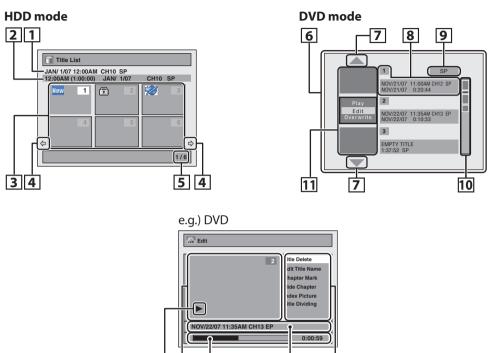
INFORMATION ON EDITING

Guide to a Title List

Title list allows you to check the titles recorded on the HDD or the disc easily. You can choose a title to play back from this list and easily edit the titles as you prefer.

Press [HDD], then press [TITLE].

Press [DVD], then press [TITLE].



13

12

1615 14

- Title name (editable): Recording date, time, channel and the recording mode will be assigned automatically as the title name until you edit it.
- **2. Title information:** Time at which the recording of the title was started, duration of the title, date recorded, channel recorded, and the recording mode in which the title was recorded.
- **3. Title List:** List of titles recorded on the HDD. Each title is indicated by its index picture. Following icons may be displayed on the index picture.
 - Indicating the title has never been played back yet.
 - : Indicating the title is protected.
 - ***** Indicating the title is a copy-protected title.
 - If you call up the title list while recording, "●" will be displayed on the index picture of the title currently being recorded.
- **4. Arrow:** Indicating there is a previous / next page.
- 5. Title list page number: Current page / total pages.
- Title list: List of the titles recorded on the disc, and their information.
- **7. Arrow:** Indicating there is a previous / next page.
- 8. Title information: On the first line, title name (editable) is displayed. On the second line, the length of the title is displayed.

Empty title: The portion of the disc where there is no recordings are made. As for the empty title, available recording time by the selected recording mode is displayed on the second line.

- **9. Recording mode:** Currently selected recording mode is displayed here.
- **10. Capacity indicator:** Indicating the position and the amount of each title in the disc. The portion for the selected title is highlighted.
 - It may not indicate the precise capacity of the disc.
 - If the duration of a title is too short, it may not be reflected in the capacity indicator.
- **11. Index pictures:** A cut from the recorded content is displayed here.
- **12. Submenu:** Submenus for the selected menu are displayed here.
- **13. Title name** (editable): If you do not name the title, the recorded date, time, channel, and the recording mode are displayed here.
- **14. Progress bar:** Indicating the progress of the playback.
- **15. Preview window:** Preview of the selected title is displayed here.
- **16. Playback status:** Indicating the current playback status of the selected title.

Press [STOP ■] to exit the title list.

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INFORMATION ON EDITING

Edit Menu

Media	HDD	DVD
Available Futures		
Putting names on titles	~	~
Deleting a title	~	~
Deleting selected titles	~	
Deleting a scene of a title	~	
Adding / deleting chapter marks	~	~
Hiding chapters		~
Protecting a title	~	
Dividing a title	~	✓ *1
Setting an index picture		~
Finalizing a disc		~
Making edits compatible		✓ *2
Putting name on disc		~
Setting or Releasing disc protect		~
🖌 : Available 🛛 🖂 :	Not availabl	e *1:-

Note

• Once you have finalized a DVD+R/ DVD-R, you cannot edit or record anything on that disc.

:-RW/+RW discs only

*2:+RW discs only

How to Access the Edit Menu

HDD

Press [HDD] first.

1)Press [TITLE].

2)Use [▲ / ▼ / ◀ / ►] to select a desired title, then press [OK].



3)Use [▲ / ▼] to select "Edit", then press [OK].



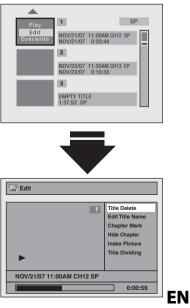
Press [DVD] first. 1)Press [TITLE].

2) Use $[\blacktriangle / \nabla]$ to select a desired title, then press [OK].

DVD



3)Use [▲ / ▼] to select "Edit", then press [OK].



Introduction

Connections

Others

Españo

75

Deleting a Title

You can delete a title which you do not need anymore. Please be advised that the title once deleted cannot be brought back.

If you are editing the titles on HDD, press **[HDD]** first. If you are editing the titles on DVD, press **[DVD]** first.



Note

- For DVD+RW/DVD-RW, the available disc space will increase only when the last recorded title in the title list is deleted. For DVD+R/DVD-R, the disc space will not be affected.
- Deleted part of the titles in the capacity indicator changes in color.
- As for DVD+RW/DVD-RW if you delete the title, deleted title will be displayed as "EMPTY TITLE".
- For DVD, it may take a while to write the data to the disc after you press **[OK]** at step 5.

Press [TITLE].

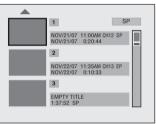


Use [▲ / ▼ / ◀ / ▶] to select a desired title to delete, then press [OK].

If you are editing the titles on HDD, proceed to step 4. If you are editing the titles on DVD, proceed to step 3. HDD mode

Title List		
Title 1 12:00AM (1:00:00)	JAN/ 1/07	CH10 SP
1	2	3
4	5	6
		1/1

DVD mode









Play From Start Edit Title Delete Delete Multiple Titles Dubbing

DVD mode

Edit	
•	Title Delete Edit Title Name Chapter Mark Hide Chapter Index Picture Title Dividing
NOV/21/07 11:00AM CH12 SP	
	0:00:59

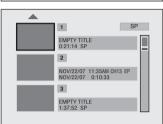
Confirmation message will appear.

Use [▲ / ▼] to select "Yes", then press [OK].

Final confirmation message will appear. Select "Yes", then press **[OK]**.

The title is now deleted.





Introduction Connections

Function Setup

Others

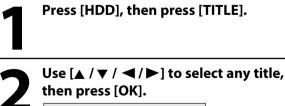
Español

Deleting Selected Titles

HDD

You can delete titles which you do not need anymore. Please be advised that the titles once deleted cannot be brought back.





Title List		
Title 1 12:00AM (1:00:00)	JAN/ 1/07	CH10 SP
1	2	3
4	5	6
		1/1

Use [▲ / ▼] to select "Delete Multiple Titles", then press [OK].

Resume Playback Play From Start Edit Title Delete Delete Multiple Titles Dubbing

Л

Use $[\land / \lor / \lor / \lor]$ to select the title you want to delete, then press [OK].

Title List		
Title 1 12:00AM (1:00:00)	JAN/ 1/07	CH10 SP
1	2	3
4	5	6
		1/1

Trash mark will appear indicating the title is marked for deletion.



Repeat step 4 until you select all the titles you want to delete.

Title List		
Title 1 12:00AM (1:00:00) JAN/ 1/07	CH10 SP
	2	3
4	5	6
		1/1

Press [CLEAR].

Confirmation message will appear.

-7

Use [▲ / ▼] to select "Yes", then press [OK].

Final confirmation message will appear. Select "Yes", then press **[OK]**.

Titles are now deleted.

Title List			
Title 1			
12:00AM (1:00:00)	JAN/ 1/07	CH10	SP
4	2		3
			1/1

To remove the trash mark from the title: Select the title with the trash mark, then press [OK].

Putting Names on Titles

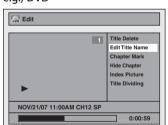
You can put title names on the titles and change the names from this menu.



Follow steps in "How to Access the Edit Menu" on page 75 to display "Edit" menu.

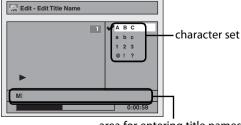


Use [▲ / ▼] to select "Edit Title Name", then press [OK]. e.g.) DVD

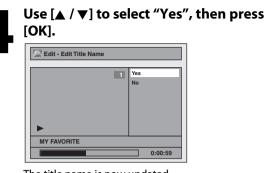




To enter a title name, follow the steps of "Guide to Edit Title Name" on this page.



area for entering title names



The title name is now updated.



Press [RETURN] once or repeatedly to go back to the title list.

For DVD, the data will be written onto the disc momentarily.

This operation may take a while to be completed.

Guide to Edit Title Name

- 1)Use [▲ / ▼] to select a desired character set, then press [OK].
- 2) Follow the list below, use [the Number buttons] repeatedly until the desired letter appears.

When you finish entering a title name, press [OK].

Select Press	ABC	abc	123	@!?
0	<space></space>	<space></space>	0	<space></space>
1	(*1)	(*1)	1	!"#\$%&'() *+,/:;<=> ?@[]^_{ }
2	ABC	abc	2	(*2)
3	DEF	def	3	(*2)
4	GHI	ghi	4	(*2)
5	JKL	jkl	5	(*2)
6	MNO	mno	6	(*2)
7	PQRS	pqrs	7	(*2)
8	TUV	tuv	8	(*2)
9	WXYZ	wxyz	9	(*2)

- *1 Press (1), character set will be changed to the " @!? " mode automatically.
- *2 Press (2) to (9), character set will be changed to the previous input mode automatically.
- To delete letters, press [CLEAR] repeatedly. Holding [CLEAR] will delete all letters.
- Use [◀ / ▶] to move the cursor to the left and right.
- You can enter up to 30 letters.

Note

 Undefined letters in a title name are shown by "*". If you delete them, adjoining letters may change to "*" or other. Introduction

Españo

Chapter Marks (Add)

You can put chapter marks in each title. Once a chapter is marked, you can use it for the chapter search feature.

-OK RETURN • - 144 11 •• (\bullet) MAGNAVOX

Note for adding or deleting chapter marks

- Maximum number of chapter marks in a title is 99 (for HDD/DVD) and the maximum number of chapter marks in total is no limit (for HDD) / 254 (for DVD).
 If the number of the chapter marks exceed the limit, you cannot add any more chapter marks.
- Only with regard to DVD editing, you may not be able to add chapter marks depending on the duration of the title or the number of chapters.
- Only with regard to DVD editing, remaining time of the disc may decrease when adding chapter marks or increase when clearing chapter marks depending on the recording time or edited contents.
- When you search for a point at step 3, you can also use the special playback functions such as [▶▶],
 [▶▶] etc.

To add a chapter mark:



Follow steps in "How to Access the Edit Menu" on page 75 to display "Edit" menu.



Use [▲ / ▼] to select "Chapter Mark", then press [OK]. Submenu will appear.



Play back the title up to the point where you want to set a new chapter mark.

When it comes to the desired point, press [PAUSE]].



Use [▲ / ▼] to select "Add", then press [OK]. e.g.) DVD

Edit - Chapter Mark	
1 Chapter 1/ 1	Add Delete Delete All
NOV/21/07 11:00AM CH12 SP	
	0:00:59



Use [▲ / ▼] to select "Yes", then press [OK].



A new chapter mark is now added.

To add more chapter marks, repeat steps 3 to 5.



Press [RETURN] once or repeatedly to go back to the title list.

For DVD, the data will be written onto the disc momentarily.

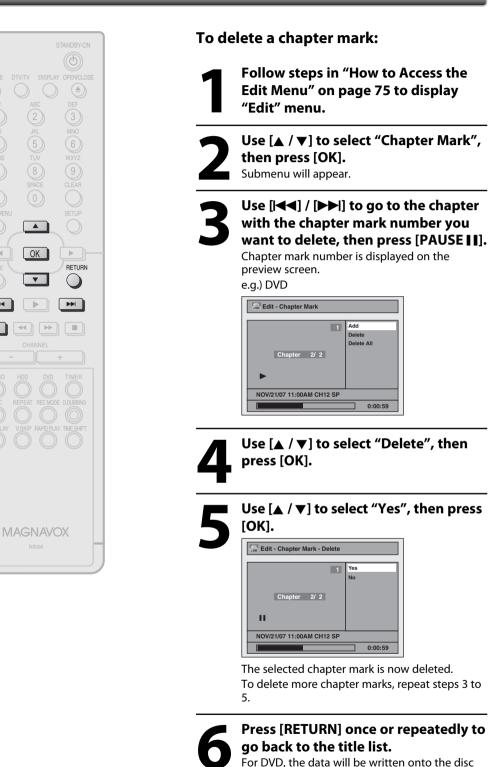
This operation may take a while to be completed.

Chapter Marks (Delete)

-

 $((\bullet))$

Connections



momentarily.

This operation may take a

while to be completed.

Españo

Note

• You cannot delete the chapter mark 1.

Chapter Marks (Delete All)





To delete all chapter marks:



Follow steps in "How to Access the Edit Menu" on page 75 to display "Edit" menu.



Use [▲ / ▼] to select "Chapter Mark", then press [OK]. Submenu will appear.



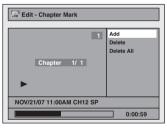
Use $[\blacktriangle / \triangledown]$ to select "Delete All", then press [OK].

Use [▲ / ▼] to select "Yes", then press [OK].

Edit - Chapter Mark - Delete A	.11
1 Chapter 2/2	Yes No
NOV/21/07 11:00AM CH12 SP	
	0:00:59

Final confirmation message will appear. Select "Yes", then press **[OK]**.

All chapter marks are now deleted.





Press [RETURN] once or repeatedly to go back to the title list.

Data will be written onto the disc momentarily.

This operation may take a while to be completed.

Dividing a Title



You can divide one title into 2 new titles.



Note

- If an internal HDD or a DVD contains the maximum number of titles (HDD: 600, DVD+RW/-RW: 49), you cannot divide any titles.
- With DVD+RW/-RW, you cannot divide the titles if the total number of chapters has already reached 254.
- When you search for a point at step 2, you can also use the special playback functions such as [▶▶],
 [▶▶] etc.
- For DVD, it may start writing data to the disc as you complete the editing procedure.

Follow steps in "How to Access the Edit Menu" on page 75 to display "Edit" menu.



Play back the title up to the point where you want to divide the title. When it comes to the desired point, press [PAUSE]].

Use [▲ / ▼] to select "Title Dividing", then press [OK].

Use [▲ / ▼] to select "Yes", then press [OK].

The title is now divided into 2 new titles, and it will go back to the title list automatically. Title name of the divided titles are identical, and index pictures are reset to the first scene at this point.

Españo

Connections

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Recording

Deleting a Scene of a Title

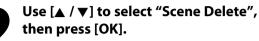


You can delete a specific part of a title.



Note

 When you search for the start/end point at step 3/4, you can also use the special playback functions such as [▶▶], [▶▶] etc. Follow steps in "How to Access the Edit Menu" on page 75 to display "Edit" menu.



	1	Scene Delete Edit Title Name Chapter Mark
		Title Dividing Protect
•		



Play back the title up to the point where you want to set a start point for the scene to be deleted, then press [OK].

Edit - Scene Delete				
•	Start End Preview Delete			
JAN/ 1/07 12:00AM CH10 LP				
	1:00:00			

Start point is now set, and the highlight automatically moves to "End".



Press [PLAY ▶] to start playback again. Play back the title up to the point where you want to set an end point, then press [OK].

Edit - Scene Delete				
•	Start End Preview Delete			
JAN/ 1/07 12:00AM CH10 LP				
	1:15:00			

End point is now set, and the highlight automatically moves to "Preview". The portion for deletion is indicated in red in the progress bar at the bottom of the screen.



With "Preview" highlighted, press [OK] to preview the result.

Before and after 5 seconds of the deleted scene can be previewed every time you press **[OK]**.

- If you are not satisfied with the result, use
 [▲ / ▼] to go back to "Start" or "End", and try setting them again.
- If you are satisfied with the result, proceed to step 6.

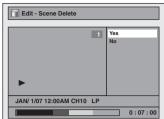
	start point end point				
Before editing	Eus 	A	fa	A A	<u>EA</u>
-			A		
Edited	Gul	1.1			



Use [▲ / ▼] to select "Delete" then press [OK].

Edit - Scene Delete				
•	Start End Preview Delete			
JAN/ 1/07 12:00AM CH10 LP				
	1:40:00			

Use [▲ / ▼] to select "Yes" then press [OK].



Final confirmation message will appear. Select "Yes" using [▲ / ▼] and then press [OK]. The selected scene is now deleted.

Press [RETURN] once or repeatedly to go back to the title list.

Basic Setup

Introduction

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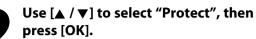
Protecting a Title

HDD

To prevent the accidental editing, or erasing of the titles, you can protect them in "Edit" menu.



Follow steps in "How to Access the Edit Menu" on page 75 to display "Edit" menu.



Edit					
•	Scene Delete Edit Title Name Chapter Mark Title Dividing Protect				
JAN/ 1/07 12:00AM CH10 LP					
	1:25:47				



With "OFF → ON" selected, press [OK].

Edit - Protect				
1	OFF ⇒ ON			
•				
JAN/ 1/07 12:00AM CH10 LP				
	1:25:47			

The title is now protected.

- If the title is already protected, "ON → OFF" will appear instead. Press **[OK]**, to release the title from protection.
- The protected title will be marked with
 icon.

4

Press [RETURN] once or repeatedly to go back to the title list.

Hiding Chapters

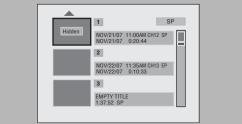
You can hide chapters from the title list.

Hidden chapters are skipped during playback.



Note

- "Hidden" will be displayed in the preview window while previewing the hidden chapter.
- · When you make all chapters in the title "Hidden", "Hidden" is displayed on an index picture of the title list.



Follow steps in "How to Access the Edit Menu" on page 75 to display "Edit" menu.



Use [▲ / ▼] to select "Hide Chapter", then press [OK]. Submenu will appear.

Use [I◄◀] / [▶▶I] to go to the chapter you want to hide, then press [PAUSE **II**1.



VR Edit - Hide Chapter				
1 Chapter 2/2 Visible	Visible Hidden			
•				
NOV/21/07 11:00AM CH12 SP	0:00:59			

The chapter is now hidden.

Press [RETURN] once or repeatedly to go back to the title list.

Data will be written onto the disc momentarily.

This operation may take a while to be completed.

If you want hidden chapters to be "Visible", select the chapter to be shown. Then use [▲ / ▼] to select "Visible" at the step 4 on this page.

Data will be written onto the disc momentarily. After that, title list is displayed.

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Setting an Index Picture

You can set your desired scene as an index picture for each title.



Follow steps in "How to Access the Edit Menu" on page 75 to display "Edit" menu.



Play back the title to find the scene you want to use as an index picture. When it comes to the desired point, press [PAUSE]].



Use [▲ / ▼] to select "Index Picture", then press [OK].



Edit - Index Picture						
1	Yes					
	No					
Ш						
NOV/21/07 11:00AM CH12 SP						
	0:00:59					

A new index picture is now set.



Press [RETURN] once or repeatedly to go back to the title list.

Data will be written onto the disc momentarily.

This operation may take a while to be completed.

Note

- If the selected picture for an index picture is overwritten, the index picture is reset to the first scene of the title.
- When you search for the point at step 2, you can also use the special playback functions such as [▶▶I],
 [▶▶] etc.

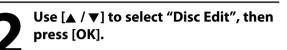
Putting Name on Disc

You can put a name on the disc and change it from this menu.



Press [STOP ■] if you are playing back a disc.

Press [SETUP].



Use [▲ / ▼] to select "Edit Disc Name", then press [OK]. e.g.) DVD+RW

🕤 Disc Edit Edit Disc Name Erase Di Make Edits Compatible Disc Protect OFF ⇒ ON

A window for entering a title name will appear.

		✓ A	в	С
No Disc Name		a	b	с
		1	2	3
Disc Total Titles	DVD+RW 3	@	1	?
Disc Space Used	0:30:48			
Disc Protect	OFF			
Make Edits Compatible	Netded			



To enter a disc name, follow the steps of "Guide to Edit Title Name" on page 79.

When you finish entering a title name, press [OK].

[OK].

Use $[\blacktriangle / \nabla]$ to select "Yes", then press Data will be written onto the disc momentarily.

This operation may take a while to be completed.

The disc name is now updated.

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Note

 You cannot select "Disc Edit" when finalized DVD+R or DVD-R is inserted.

Erasing Disc



You can erase all titles on a disc.

SETUP

 \bigcirc

▶

OK

 $\odot \bigcirc \bigcirc \bigcirc \bigcirc$

MAGNAVOX

-

Press [STOP ■] if you are playing back a disc. Press [SETUP]. Use $[\blacktriangle / \triangledown]$ to select "Disc Edit", then press [OK]. Use [▲ / ▼] to select "Erase Disc", then press [OK]. e.g.) DVD+RW 🕤 Disc Edit Edit Disc Name Erase Disc Make Edits Compatible Disc Protect OFF \$\dots ON Use $[\blacktriangle / \mathbf{\nabla}]$ to select "Yes", then press [OK]. When you press "Yes", all the contents in the disc will be erased. Are you sure to erase the disc? Yes No Data will be written onto the disc momentarily.

> This operation may take a while to be completed.

The contents of the disc is now deleted.

Note

• When you select "Yes" at step 4, all contents of the disc will be erased.

Making Edits Compatible

If you have added or deleted chapters, or made chapters hidden, you must perform "Make Edits Compatible" to see those effects on other unit.



Press [STOP ■] if you are playing back a disc. Press [SETUP]. Use $[\blacktriangle / \triangledown]$ to select "Disc Edit", then press [OK]. Use [▲ / ▼] to select "Make Edits Compatible", then press [OK]. 💽 Disc Edit Edit Disc Name Erase Disc Make Edits Compatible Disc Protect OFF ⇔ ON Use $[\blacktriangle / \triangledown]$ to select "Yes", then press [OK]. Activate the Make Edits Compatible? Yes No Data will be written onto the disc momentarily. This operation may take a while to be completed.

Español

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Deleting All Titles in HDD





Press [STOP] if you are playing back a disc.

Press [SETUP].



Use [▲ / ▼] to select "HDD Menu", then press [OK].



Use $[\blacktriangle / \heartsuit]$ to select the desired type of deletion, then press [OK].

Select "Delete All Unprotected Titles" if you want to delete only the unprotected titles.

Select "Delete All Titles" if you want to delete all titles including the ones protected.

HDD Menu	
Delete All Titles Delete All Unprotected Titles	



Use $[\blacktriangle / \triangledown]$ to select "Yes", then press [OK].

Delete entire titles? Yes No

Final confirmation message will appear. Select "Yes", then press **[OK]**. Titles are now deleted.

LIST OF SETTINGS

The following table is the contents which you can set and the default setting. Refer to the following table for useful operation.

Setup		t is the default)		Contents	
Playback —> Pages 96-99	Parental Lock		OFF	Set the parental level for DVD playback.	
Pages 90-99	Dias Audia		level 8 [Adult] to 1 [Kid Safe]	Compressing the range of sound volume.	
	Disc Audio	Dynamic Range Control	ON	compressing the range of sound volume.	
		PCM	48kHz	Set whether the sound recorded in 96kHz will	
			96kHz	be down sampled in 48kHz.	
		Dolby Digital	PCM	Set the type of sound signal which outputs	
		2 chay bigitai	Stream	from the digital audio output jack.	
	Disc Menu Lang	uage	English	Set the language for disc menu language.	
			French		
			Spanish		
	Audio Language		Other	Set the language for audio.	
			Original English	Set the language for audio.	
			French		
			Spanish		
			Other		
	Subtitle Language		OFF	Set the language for subtitles.	
			English French		
			Spanish		
			Other		
	Angle Icon		ON	Set whether or not to display the angle icon.	
			OFF		
	Still Mode		Auto	Set the type of still image in pausing playback.	
			Field Frame		
	Variable Skip / R		Variable Skip	Set the amount of skip time when you press	
ת -			5 seconds	[V.SKIP].	
			15 seconds		
5			30 seconds		
			1 minute 5 minutes		
5			Variable Replay	Set the amount of rewind time when you	
			5 seconds	press [V.REPLAY].	
			15 seconds		
			30 seconds		
			1 minute 5 minutes		
Display		English	Set the language for OSD (on-screen display).		
Pages 100-101			Français		
			Español		
	Screen Saver		OFF	Set the idling time before the screen saver	
			5minutes	starts.	
			10minutes 15minutes		
			30minutes		
	FL Dimmer		Auto	Set the brightness of the front panel display.	
			Bright		
			Dark		
	CC Style	DTV CC	OFF	Set the type of the DTV closed caption.	
	→ Pages 34-36	י ו	Service1		
			Service2 Service3		
			Service4		
			Service5		
			Service6		
		User Setting	ON	Set the whether or not CC style setting is effective.	
		Et C	OFF		
		Font Size	Middle	Set font size of the displayed caption.	
			Large Small		
		1		Sinan	

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Introduction

	LIST OF SETTINGS								
Se	tup	Items (highlight	is the default)		Contents				
	Display → Pages 100-101	splay — CC Style	Font Style	Style1 Style2 Style3 Style4 Style5 Style6 Style7 Style8	Set font style of the displayed caption.				
			Edge Type	None Raised Depressed Uniform L.Shadow R.Shadow	Set edge type of the displayed caption.				
			Font Opacity	Solid Translucent Flash	Set the font opacity of the displayed caption.				
			Font Color	Transparent White Black Red Green Blue Yellow Magenta Cyan	Set the font color of the displayed caption.				
			Back Opacity	Solid Translucent Flash	Set back opacity of the displayed caption.				
General Setting			Back Color	Transparent White Black Red Green Blue Yellow Magenta Cyan	Set back color of the displayed caption.				
		V-Chip	L	Downloadable Rating Change Password	Set the downloadable rating.				
	Video → Pages 102-103	Progressive Scan		ON OFF	Set to the progressive scan mode (set to "ON") or to the interlace scan mode(set to "OFF").				
	Vie		TV Aspect		4:3 Letter Box 4:3 Pan & Scan 16:9 Wide	Set a picture size according to aspect ratio of your TV.			
		Video Input	E1(Rear) E2(Front)	Video In S-Video In Video In	Set the video input type for the external input.				
	Recording	Auto Chapter → Page 39		S-Video In OFF 5 minutes 10 minutes 15 minutes 30 minutes 60 minutes	Insert chapter marks at even time interval.				
		Auto Finalize	Disc Full End of Timer Rec	ON OFF	Set the unit to finalize the disc automatically.				
		Make Recording C		OFF ON	Set to prohibiting additional recording (OFF)				
		→ Page 39		OFF	or to replace the title list after recording (ON).				

LIST OF SETTINGS

Se	tup	Items (highlight is the default)		Contents
General Setting	Clock 🔶	Clock Setting		Set the clock.
	Pages 29-30	Auto Clock Setting	OFF	Set the clock automatically.
			Auto	
			Manual	
		Daylight Saving Time	ON(MAR-NOV)	Set the clock for the daylight saving time.
			ON(APR-OCT) OFF	
	Channel > Pages 26-28	Auto Channel Preset	Antenna Cable (Analog) Cable (Analog/Digital)	Tune the channels automatically.
		Manual Channel Preset		Tune the channels manually.
		TV Audio Select	Stereo SAP	Set the analog TV audio type for output and recording.
	Reset All -> Page 104		Yes	Set to the default setting.
		-	No	-

Note

- Your change to each settings stays on even when the power is off.An item which is not currently available is grayed in the settings.

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SETUPS

Playback

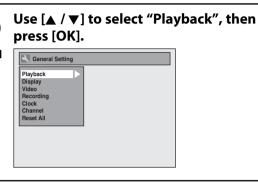


Press [STOP] if you are playing back a disc.

F S

Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].

"General Setting" menu will appear.





Use [▲ / ▼] to select a desired item, then press [OK].

 1
 Parental Lock

 2
 Disc Audio

 3
 Disc Menu Language

 4
 Audio Language

 5
 Subtitle Language

 6
 Angle Icon

 7
 Still Mode

 8
 Variable Skip / Replay

Submenu will appear.



Refer to 1 to 8 on pages 97-99 and set the selected item.

When you finish with setting, press [SETUP] to exit.

Playback (cont'd)

1 Parental Lock (Default: OFF) (DVD only)

Some DVD-video feature a parental lock level. Playback will stop if the ratings exceed the levels you set, it will require you to enter a password before the disc will playback. This feature prevents your children from viewing inappropriate material.

Use $[A / \nabla]$ to select the desired level, then press [OK].

Parental Lock		
	OFF	
	8 [Adult]	
	7 [NC 17]	
	6 [R]	
	5 [PG R]	
	4 [PG 13]	
	3 [PG]	
	2 [G]	
	1 [Kid Safe]	

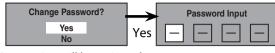
If a password has not been set yet, proceed to A. If a password has been set already, proceed to **B**.

Note

- Parental lock function may not be available to some discs.
- With some DVD, it may be difficult to find if they are compatible with parental lock. Be sure to check if the parental lock function operates in the way that you have set.
- Record the password in case you forget it.
- If there is a DVD in the unit when you set up the parental lock, press [OPEN/CLOSE] to activate the parental lock level.

A A password has not been set yet.

Use [▲ / ▼] to select "Yes". Use [the Number buttons] to enter a new password except for 4737, then press [OK].



Your setting will be activated.



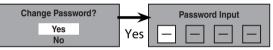
 Use [the Number buttons] to enter the current password.



Your setting will be activated.

• If you want to change password, use [▲ / ▼] to select "Yes". Use [the Number buttons] to enter a new password, then press [OK].

<change the password>



Your setting will be activated.

Note

- Press [CLEAR] to erase numbers entered incorrectly.
- When you forget the password or you want to clear all settings in "Parental Lock" menu, enter 4,7,3,7 using [the Number buttons] in password input window. Password will be cleared and parental levels will be set to "OFF".

Playback



Connections

Basic Setup

Recording

SETUPS

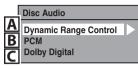
Playback (cont'd)

2 Disc Audio

Choose the appropriate audio setting for your external device.

It will only affect a disc playback.

Use $[\blacktriangle / \nabla]$ to select a desired item, then press [OK].



A Dynamic Range Control (Default : ON) (DVD only)

Set to "ON" to compress the range between soft and loud sounds.

Use $[\blacktriangle / \nabla]$ to select a setting, then press [OK].

Dyr	namic Range Control
	ON
	OFF

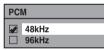
Your setting will be activated.

Note

• Dynamic range control function is available only with the titles which are recorded in the Dolby Digital format.

B PCM (Default : 48kHz)

Use [▲ / ▼] to select a setting, then press [OK].



Your setting will be activated.

- **48kHz** : If your amplifier/decoder is NOT compatible with 96kHz PCM, select "48kHz". 96kHz sound will be output in 48kHz.
- **96kHz** : If your amplifier/decoder is compatible with 96kHz PCM, select "96kHz". 96kHz sound will be output.

Note

When playing back disc with copyright protection

• Even if you select "96kHz", the sound will be down sampled at 48kHz.

C Dolby Digital (Default : Stream)

Use $[\blacktriangle / \nabla]$ to select a setting, then press [OK].

PCM	
Stream	

Your setting will be activated.

- PCM :Converts the Dolby Digital into PCM (2 channel). When your amplifier/decoder is NOT compatible with Dolby Digital, set to "PCM".
- **Stream :** Outputs Dolby Digital signals When your amplifier/decoder is compatible with Dolby Digital, set to "Stream".
- With regard to DVD playback, if the audio source is in Dolby Digital format, set "Dolby Digital" to "PCM" so that you can switch to main audio (L), sub audio (R), or a combination of both (L / R) using your amplifier / decoder.

3 Disc Menu Language (Default : English) (DVD only)

Set the language for disc menu.

Use $[\blacktriangle / \nabla]$ to select a setting, then press [OK].

Disc Menu Language			
	English		
	French		
	Spanish		
	Other		

Your setting will be activated.

4 Audio Language (Default : Original) (DVD only)

Set the audio language.

Use $[\blacktriangle / \nabla]$ to select a setting, then press [OK].

Audio Language		
	Original	
	English	
	French	
	Spanish	
	Other	

Your setting will be activated.

• When "Original" is selected, the audio language will be in the disc's default language.

Playback (cont'd)

5 Subtitle Language (Default : OFF) (DVD only)

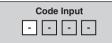
Set the subtitle language.

Use [▲ / ▼] to select a setting, then press [OK].



Your setting will be activated.

If "Other" is selected for **3** to **5**, press 4-digit code using **[the Number buttons]**.



• When you finish entering the code, press [OK]. Refer to the language code table on page 109.

Note

- Only the languages supported by the disc can be selected.
- Audio language setting may not be available to some discs.
- You can change or switch off the subtitles on a DVD also from the disc menu if it is available.
- Press [CLEAR] or [] to erase numbers entered incorrectly.

6 Angle Icon (Default : ON)

(DVD only)

В

Set to "ON" to show the angle icon during the playback. Use $[\land / \lor]$ to select a setting, then press [OK].

Angle Icon	
	ON
	OFF

Your setting will be activated.

7 Still Mode (Default : Auto)

Select "Auto" usually.

Use $[\blacktriangle / \mathbf{\nabla}]$ to select a setting, then press [OK].

Still Mode		
	Auto	
	Field	
	Frame	

Your setting will be activated.

Auto	• Optimum resolution setting ("Field" or
	"Frame") will be selected.

Field : Images in the still mode will be stabilized. Frame : Images in the still mode will be highly defined.

Note
Frame is 1 completed video image made up of 2 fields (There are 30 frames per second of NTSC video).

8 Variable Skip / Replay

Assign **[V.SKIP]** or **[V.REPLAY]** to skip or rewind by a certain amount of time when they are pressed.

Use $[\blacktriangle / \triangledown]$ to select a desired item, then press [OK].



Refer to the explanations below and set the selected item.

A Variable Skip (Default: 30 seconds)

Sets the amount of skip time for [V.SKIP].

Variable Skip	
5 seconds	
15 seconds	
30 seconds	
1 minute	
5 minutes	

Variable Replay (Default: 30 seconds)

Sets the amount of rewind time for [V.REPLAY].

Va	Variable Replay	
	5 seconds	
	15 seconds	
	30 seconds	
	1 minute	
	5 minutes	

Introduction

(DVD only)

SETUPS

Display



Press [STOP] if you are playing back a disc.



Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].



Use $[\blacktriangle / \heartsuit]$ to select "Display", then press [OK].



Use $[\blacktriangle / \heartsuit]$ to select a desired item, then press [OK].

1OSD Language2Screen Saver3FL Dimmer4CC Style5V-Chip

Selection menu will appear.



Refer to 1 to 5 on page 101 and set the selected item.

• For **4** refer to pages 34-36.

When you finish with setting, press [SETUP] to exit.

Display (cont'd)

1 OSD Language (Default : English)

Set the language for the on-screen display.

Use [▲ / ▼] to select a setting, then press [OK].

OSD Language	
	English
	Français
	Español

Your setting will be activated.

Screen Saver (Default : 10 minutes)

Set the time to activate the screen saver function on the TV screen.

Use [▲ / ▼] to select a setting, then press [OK].

Screen Saver		
	OFF	
	5 minutes	
	10 minutes	
	15 minutes	
	30 minutes	

Your setting will be activated.

FL Dimmer (Default: Bright)

Set the front panel display brightness.

Use $[\blacktriangle / \nabla]$ to select a setting, then press [OK].

FL	Dimmer
	Auto
	Bright
	Dark

You can choose one from "Auto", "Bright" and "Dark". If "Auto" is selected, the display gets dark when the power is off.

5 V-Chip

3

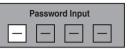
You can set the viewing limitation for the digital TV programs to prevent your children from watching inappropriate programs.

This feature is available only after the digital TV ratings have been downloaded.

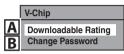
• The ratings can be downloaded by the unit automatically if it is available in your area.

1) Use [the Number buttons] to enter the access password.

If you have not set the password, first, use **[the Number buttons]** to set the access password, then press **[OK]**. The number you entered will be stored as the access password.



2) Use $[\blacktriangle / \nabla]$ to select a desired item, then press [OK].



A Downloadable Rating

Set the rating system via digital broadcasting, or clear the downloaded ratings.

If the broadcasting signal does not have the downloadable rating information, the message below will appear.

Downloadable Rating is currently not available.

 This message will also appear when you try to access "DOWNLOADABLE RATING" after you have cleared the downloadable rating information, and the new information has not been downloaded since.

To set the rating:

Use $[\land / \lor]$ to select "BLOCK SETTING" then press **[OK]** to show the various types of ratings. Use $[\land / \lor]$ to select a desired rating to set, then press **[OK]** to show the levels for the rating. Use $[\land / \lor]$ to select a level, then press **[OK]** to switch "VIEW" or "BLOCK". If you set one level to "BLOCK", all the higher levels will be turned to "BLOCK" automatically.

To clear the downloadable rating information and its setting:

Use [▲ / ▼] to select "CLEAR DOWNLOADABLE RATING", then press [**OK**].

B Change Password

Change the current password.

Use [the Number Buttons] to enter new access password.

Note

- When you forget the access password at step 1), enter 4,7,3,7 using [the Number buttons] in the password input window. Password will be cleared.
- Depending on the type of rating system, you may set the levels individually.

Introduction

Function Setup

SETUPS

Video



Press [STOP] if you are playing back a disc.



Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].



Use $[\blacktriangle / \triangledown]$ to select "Video", then press [OK].



Use $[\blacktriangle / \heartsuit]$ to select a desired item, then press [OK].

1Progressive Scan2TV Aspect3Video Input

Submenu will appear.



Refer to 1 to 2 on page 103 and set the selected item.

• For **3** refer to page 50.



When you finish with setting, press [SETUP] to exit.

Video (cont'd)

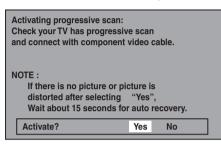
Progressive Scan (Default : OFF)

This unit is compatible with the progressive scan system. The feature provides you with the higher definition images than the traditional output system does. To utilize this feature, you must set progressive scan mode to "ON".

1) Use [▲ / ▼] to select "ON", then press [OK].

Progressive Scan		
	ON	
	OFF	

2) Use [◀/▶] to select "Yes", then press [OK].



3) Use [▲ / ▼] to select "Yes" within 15 seconds, then press [OK].

Your setting will be activated.

Note

- If your TV is compatible with progressive scan (525p / 480p), you are recommended to use the component video cable (commercially available) to connect this unit to the TV. (Refer to "Method 3" on page 18.) If not, use the RCA video cable and set the progressive scan to "OFF" or press and hold [SETUP] for more than 3 seconds during HDD / DVD playback.
- When selecting "No" or not pressing any buttons on the unit or remote control within 15 seconds at step 3, progressive scan remains to be "OFF" (interlace scan).

2 TV Aspect (Default: 4:3 Letter Box)

You can select the TV aspect ratio to match the formats of what you are playing back with the unit and your TV screen (4:3 standard or 16:9 widescreen TV).

Use $[\blacktriangle / \triangledown]$ to select a setting, then press [OK].

TV Aspect		
	4:3 Letter Box	
	4:3 Pan & Scan	
	16:9 Wide	

If you have a standard TV:

Select "4:3 Letter Box", so that black bars appear on the top and bottom of the TV screen when playing back a wide-screen picture. Select "4:3 Pan & Scan" for a full height picture with both sides trimmed when playing back wide-screen picture.

If you have a widescreen TV:

Select "16:9 Wide".

Introduction

Españo

Others

SETUPS

Reset All

Reset the setting to default.



Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].

"General Setting" menu will appear.



Use [▲ / ▼] to select "Reset All", then press [OK].



Select "Yes" using $[\blacktriangle / \nabla]$, then press [OK].

Reset to factory default?

Yes No



Select "Yes" again using $[\blacktriangle / \nabla]$, then press [OK].

> Are you sure? Yes No

Your setting in recording will be initialized.

Note

- · The settings listed below will remain unchanged even after resetting to the factory default.
- OSD language setting
- Channel setting
- Clock setting
- Parental lock setting
- V-Chip setting
- Timer programming information

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TROUBLESHOOTING

Before requesting service for this unit, check the table below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation.

	Symptom	Remedy
~	The power does not turn on.	 Check that the AC power cord is connected securely. Batteries of the remote control are weak.
POWER	The unit turns on automatically without any operation.	• The unit turns on automatically 2 seconds before the timer recording.
	The OSD language menu appears every time the power turns on.	• Finish up the language setting procedure by selecting a language in the OSD language menu. Press [OK] to activate the setting.
	The unit does not function.	 "\overline" or error message appears if the operation is prohibited. Batteries of the remote control are weak or exhausted.
	No picture, sound or menu appears on the screen.	Check if the connections are made securely and correctly.Check if the cables are damaged.
		• Check if a correct external input channel is selected on your TV. (Refer to page 20.)
	Clock setting and channel setting cannot be performed.	 Check if you have completed the channel setting. (Refer to pages 26 to 28.) If a recording is in progress, these operations cannot be performed.
	The unit does not operate properly.	• Moisture has condensed inside the unit. Remove the disc and leave the unit turned on for about 2 hours until the moisture evaporates. (Refer to page 4.)
GENERAL	"Repairing" appears on the TV screen.	• If there is a power failure or unplugging during recording, finalizing, formatting or editing (even after "Repairing" disappears), a repairing process will begin automatically just after turning the unit on again. It may take several minutes up to about several hours.
	In a case you intend to cancel the repairing process. Do you want to cancel a repairing process? When selecting "Yes", the disc may not be usable. Yes No Repairing	 If you intend to cancel the repairing process, press [OPEN/CLOSE ▲] on the front panel, then select "Yes" and press [OK]. After that, press [OPEN/CLOSE ▲] to take out the disc. The disc canceled during the repairing process MAY NOT work.
	The clock display does not appear in the front panel display.	 Check that the AC power cord is connected securely. (In case of power failure) Check the breaker and clock setting.
	When you forget the password for parental lock.	• Please cancel the password and the set level. (Refer to page 97.)
VEL	TV channels cannot be changed.	 Check if the connections are made securely and correctly. Check if the cables are damaged. Try channel setting by following the steps on pages 26 to 28.
AN	Only specific channels do not appear.	• The channels may be set to be skipped. (Refer to pages 27 to 28.)
CH	The external input channels (such as E1 or E2) cannot be skipped.	• This unit does not skip the external input channels. This is not a malfunction.
	The image from the external device cannot be displayed or recorded.	 Try pressing [SOURCE] repeatedly. Turn on all connected devices. Check if the connections are made securely and correctly.
RECORDING	Recording is impossible.	 It is prohibited to make a recording from 2 minutes before the programmed start time of a timer recording. This unit cannot record programs that contain copy protection signal. This is not a malfunction. The space of the recording media may be used up. Try deleting unnecessary titles, or exchange it with the recordable media. The maximum number of titles or chapters has exceeded. Delete the unnecessary titles to make enough space or insert a new recordable media. Check if the connections are made securely and correctly.

Connections

Basic Setup

Recording

Playback

Editing

Function Setup

Others

Español

EN 105

AVD/DAH	Timer recording cannot be performed.	• The internal clock of the unit may have been stopped due to a power failure that lasted for more than 30 seconds. Reset the clock. (Refer to pages 29 to 30.)
RECORDING HDD	Titles which were supposed to be recorded by the time shift recording function cannot be found in the title list.	• Titles recorded by the time shift recording function will not be stored in the title list. They may be stored temporarily in the title list, but will be deleted when you exit the time shift recording mode. Time shift recording mode will stop not only when you press [STOP] twice, but also when the disc runs out of space, when the recording time exceeds 12 hours, or when it comes to 2 minutes before timer recording. This is not a malfunction.
REC DVD	Recording is impossible.	 Copy-once programs cannot be recorded on DVD. This is not a malfunction. Check if the disc is protected or finalised. Undo the protection or the finalisation. DVD-RW once formatted on other unit cannot be recorded on this unit unless all the contents in the disc are erased. Check if the connections are made securely and correctly.
	The indication "Writing to Disc does not disappear."	• "Writing to Disc " may remain on screen for the maximum of 20 seconds even after it reached 100%. This is not a malfunction.
	TV aspect ratio does not match your TV screen.	 Check the TV aspect ratio. (Refer to page 103.) A different aspect ratio will be used when the aspect ratio specified by the disc is not supported by this unit.
GENERAL	Playback picture is distorted. Color of the picture is abnormal.	 During fast forward or fast reverse, playback picture may be distorted. This is not a malfunction. Connect to TV directly. When you connect this unit with the television via VCR or other devices, the picture may be distorted due to the copy-protection signal. Check if the cables are damaged. Keep the equipment which may cause electrical disturbances, such as a cellular phone, away.
	There is no sound, or no subtitle.	 Turn on all connected devices. Check if the external input channel is set correctly. Check if the connections are made securely and correctly.
CK HDD/DVD	Playback does not start from the beginning.	 Resume function may be activated. Refer to page 65 to cancel the resume point.
PLAYBACK HDD HI	HDD playback suddenly stops.	• When DVD recording finishes during HDD playback, the unit will stop the HDD playback, and start writing data to the DVD. This is not a malfunction.
DVD	Playback cannot be performed.	 Check if the playable disc is inserted. Check if the disc is loaded correctly with the labeled side facing up. Discs made on other devices or on personal computers cannot be played back on this unit unless it is finalised on the device. Even if it is finalised, the performance of those discs are not guaranteed on this unit. The disc may be dirty or flawed. Clean the disc. Check if all the connections are made correctly. Check the parental lock setting. (Refer to page 97.) Playback of DVD is prohibited from 2 minutes before the programmed start time of a timer recording when the recording media is DVD.
	There is no sound, or no subtitle.	 Check if the "Disc Audio" is set correctly. (Refer to page 98.) There is a possibility that the selected subtitle language is not supported by the disc.
	Digital audio setting cannot be changed to main audio (L), sub audio (R) or combination of both.	• If the audio source is in the Dolby Digital format, set the Dolby Digital Setting to "PCM" in "Playback" menu. (available only for DVD) (Refer to page 98.)

Connections

Playback

TROUBLESHOOTING

PLAYBACK		Audio language or the subtitle language of the DVD cannot be changed. Camera angles cannot be changed.	 Multilingual subtitles are not supported by the disc. Some audio languages or the subtitle languages can be changed only from the disc menu. Please refer to the disc's manual. Even though the multi-angle feature is supported by the disc, that does
	DVD	Camera angles cannot be changed.	not mean all the scenes are shot from multi-angles. Changing angles are available only for those scenes shot from the multi-angle.
		The disc cannot be played back on other player even though it is finalized properly.	• Some DVD players do not play back the disc made on other recorder. Refer to the manual of the unit.
	/ DVD	Titles cannot be edited or deleted.	• The titles or the disc itself may be protected. Cancel the protection by following the steps on page 86 for title protection and page 55 for disc protection.
5 NG	DOH	Dubbing cannot be executed.	 When the number of the titles or the chapters exceeds the maximum recordable number, the dubbing will not be executed. Dubbing of a "copy-once only" program is not possible with this unit.
EDITING	•	Titles cannot be edited or deleted.	• The titles in the DVD+R/-R cannot be edited or deleted if they are finalised. If it is DVD-RW, undo the finalisation by following the steps on page 56.
	DVD	The capacity of the disc doesn't increase even if the recorded program is deleted.	• With DVD+RW/-RW, the disc space will increase only when the last title in the original is deleted. With DVD-R/+R, deleting a title will not increase the disc space.
		Dubbing cannot be executed.	Check if the disc is compatible for recording (refer to page 37).
ONTROL	Tŀ	ne remote control does not function.	 No batteries in the remote or the batteries may be weak. Replace the batteries. Make sure there is no obstacle between the remote and the unit. Try getting closer to the unit. (Refer to page 12.)
REMOTE			• If above solutions do not solve the problem, please call an Authorized Service Center.

Frequently Asked Questions

- Can I record to CD-RW/-R?
- Can I play back DVD-video that is bought in another country?
- Can I connect the unit to my PC?
- Can I program a timer recording with cable/satellite box?
- Can I record one channel while watching another channel using a cable / satellite box?
- Can I connect this unit directly to a TV which only has an antenna in jack using an RF coaxial cable?
- Can I change the channels on the cable / satellite box using the remote control of this unit?

No, this unit records only HDD/DVD.

Possible when the region code of the disc is 1 and All.

No, you cannot control the unit by PC.

Yes, you can. Select "E1" or "E2" as your recording channel, and leave the cable / satellite box on (pages 17, 42-45).

It depends on your connection configurations. For more details, please kindly contact your cable / satellite provider.

No. You need an RF modulator (commercially available) to connect this unit to a TV which only has an antenna in jack (page 16). This unit does not have an RF modulator.

No. Changing the channels on the cable / satellite box using this unit's remote control is not possible. You need to use the remote control supplied with the cable / satellite box to change the channels on the cable / satellite box. Others

TROUBLESHOOTING

Error message Disc Error — Please eject the disc. — Playback feature may not be available on this Disc.	Cause Unplayable disc is inserted in the unit. The disc is upside down. 	 Solution Insert the standardized disc which bear the marks on page 58. Insert the disc with the labeled side facing up.
Region Error — Please eject the disc. — Playback is not authorized in your region.	 Playback is not authorized in the region of the DVD-video which you inserted in the unit. 	Insert the DVD-video with region codes 1 or ALL.
Parental Lock On The current selected parental level prohibits playback.	 The current selected parental level prohibits playback. 	 Check "Parental Lock" setting in "Playback" menu (page 97).
Recording Error This program is not allowed to be recorded.	• The recording function encountered the copy prohibited program.	 You cannot record copy prohibited programs.
Recording Error This program is not recordable in +VR mode.	 You are trying to record the copy-once program. 	 You cannot record the copy-once program.
Recording Error Cannot record on this disc.	 You are trying to record onto the disc which is unrecordable, or the disc status is unable to record. The disc is dirty. The disc is damaged. 	 Insert the recordable disc, and ensure the disc status satisfies the recording requirements (page 37). Clean the disc with a cleaning cloth. Replace the disc.
Recording Error This disc is protected and not recordable.	 You are trying to record on to the protected disc which is set in "Disc Edit" menu. 	• Release the disc protect setting in "Disc Edit" menu (page 55).
Recording Error Disc is full. (No area for new recording)	You are trying to record onto the disc which has no space for recording.	 Insert the recordable disc with enough recording space.
Recording Error You cannot record more than 49 titles on one disc. (The maximum is 49)	• You are trying to record onto the disc on which the number of recording titles comes up to the maximum (49).	Delete unnecessary titles (pages 76-77).
Recording Error You cannot record more than 254 chapters on one disc. (The maximum is 254)	 You are trying to record onto the DVD+RW or DVD-RW on which the number of recording chapters comes up to the maximum (254). 	Delete unnecessary chapter marks (pages 81-82).
Recording Error You cannot record on this disc as Power Calibration Area is full.	 When recordings are performed repeatedly onto an unstable disc, this area may come up to be full. Every time you insert a disc for recording, the disc's working area will be taken up. And if you repeat this frequently, it will be used up sooner and you may not be able to record full 49 titles. 	• Insert a new disc.
Recording Error This disc is already finalized.	 You are trying to record onto the disc already finalized. 	 Release the finalizing for this disc (page 56).
Recording Error The disc has no recording compatibility. Set "Make Recording Compatible" to "ON" to convert the disc.	 You are trying to record onto the disc that had been recorded by other recorders. 	• Set "Make Recording Compatible" to "ON" to rewrite the menu, after that you will record to disc (page 39).
Recording Error You cannot record more than 600 titles on HDD. (The maximum is 600).	 You are trying to record onto the HDD when total title number is already at its limit. 	Delete unnecessary titles (pages 76-77).
Recording Error Cannot record on this HDD.	 The internal HDD is dirty or damaged. There is not enough space on the internal HDD. 	 Contact the customer service center. Delete unnecessary titles (pages 76-77).

* If you are still having trouble with the unit after checking "TROUBLESHOOTING", write down the error code and the error description for calling our help line mentioned on the front page to locate an Authorized Service Center.

LANGUAGE CODE

Language	Code
Abkhazian	4748
Afar	4747
Afrikaans	4752
Albanian	6563
Amharic	4759
Arabic	4764
Armenian	5471
Assamese	4765
Aymara	4771
Azerbaijani	4772
Bashkir	4847
Basque	5167
Bengali;Bangla	4860
Bhutani	5072
Bihari	4854
Bislama	4855
Breton	4864
Bulgarian	4853
Burmese	<u> </u>
Byelorussian Cambodian	5759
Catalan	4947
Chinese	7254
Corsican	4961
Croatian	5464
Czech	4965
Danish	5047
Dutch	6058
English	5160
Esperanto	5161
Estonian	5166
Faroese	5261
Fiji	5256
Finnish	5255
French	5264
Frisian	5271
Galician	5358
Georgian	5747
German	5051
Greek	5158
Greenlandic	5758
Guarani	5360
Gujarati	5367
Hausa	5447
Hebrew	5569
Hindi	5455

Language	Code
Hungarian	5467
Icelandic	5565
Indonesian	5560
Interlingua	5547
Interlingue	5551
Inupiak	5557
Irish	5347
Italian	5566
Japanese	5647
Javanese	5669
Kannada	5760
Kashmiri	5765
Kazakh	5757
Kinyarwanda	6469
Kirghiz	5771
Kirundi	6460
Korean	5761
Kurdish	5767
Laothian	5861
Latin	5847
Latvian; Lettish	5868
Lingala	5860
Lithuanian	5866
Macedonian	5957
Malagasy	5953
Malay	5965
Malayalam	5958
Maltese	5966
Maori	5955
Marathi	5964
Moldavian	5961
Mongolian	5960
Nauru	6047
Nepali	6051
Norwegian	6061
Occitan	6149
Oriya	6164
Oromo (Afan)	6159
Panjabi	6247
Pashto; Pushto	6265
Persian	5247
Polish	6258
Portuguese	6266
Quechua	6367
Rhaeto-Romance	6459
Romanian	6461

Language	Code
Russian	6467
Samoan	6559
Sangho	6553
Sanskrit	6547
Scots Gaelic	5350
Serbian	6564
Serbo-Croatian	6554
Sesotho	6566
Setswana	6660
Shona	6560
Sindhi	6550
Singhalese	6555
Siswat	6565
Slovak	6557
Slovenian	6558
Somali	6561
Spanish	5165
Sundanese	6567
Swahili	6569
Swedish	6568
Tagalog	6658
Tajik	6653
Tamil	6647
Tatar	6666
Telugu	6651
Thai	6654
Tibetan	4861
Tigrinya	6655
Tonga	6661
Tsonga	6665
Turkish	6664
Turkmen	6657
Twi	6669
Ukrainian	6757
Urdu	6764
Uzbek	6772
Vietnamese	6855
Volapuk	6861
Welsh	4971
Wolof	6961
Xhosa	7054
Yiddish	5655
Yoruba	7161
Zulu	7267

Introduction

Connections

Basic Setup

Recording

Playback

Editing

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GLOSSARY

Analog Audio

An electrical signal that directly represents sound. Compare this to digital audio which can be an electrical signal, but is an indirect representation of sound. See also "Digital Audio".

Aspect Ratio

The width of a TV screen relative to its height. Conventional TVs are 4:3 (in other words, the TV screen is almost square); widescreen models are 16:9 (the TV screen is almost twice as wide as it is high).

Chapter

Just as a book is split up into several chapters, a title on a DVD is usually divided into chapters. See also "Title".

Component Video Output

Each signal of luminance (Y) and component (PB/CB, PR/ CR) is independent to output so that you can experience picture color as it is.

Also, due to compatibility with progressive video (525p/480p), you can experience higher-density picture than that in interlace (525i/480i).

Digital Audio

An indirect representation of sound by numbers. During recording, the sound is measured at discrete intervals (44,100 times a second for CD audio) by an analogto-digital converter, generating a stream of numbers. On playback, a digital-to-analog converter generates an analog signal based on these numbers. See also "Sampling Frequency" and "Analog Audio".

Dolby Digital

The system to compress digital sound developed by Dolby Laboratories. It offers you sound of stereo(2ch) or multi channel audio.

Finalize

To make DVD, which have been recorded on, possible to play back in DVD players. With this unit, it is possible to finalize DVD+R, DVD-RW, and DVD-R.

JPEG (joint photographic experts group)

JPEG is a method of compressing still image files. You can copy JPEG files on CD-RW/-R from a computer and play back the files on this unit.

MP3 (MPEG audio layer 3)

MP3 is a method of compressing files. You can copy MP3 files on CD-RW/-R from the computer and play back the files on this unit.

PBC (playback control) (video CD only)

This function enables you to play back interactive software using a menu screen. See also "Video CD".

PCM (pulse code modulation)

The most common system of encoding digital audio, found on CD and DAT. Excellent quality, but requires a lot of data compared to formats such as Dolby Digital and MPEG audio. For compatibility with digital audio recorders (CD, MD and DAT) and AV amplifiers with digital inputs, this unit can convert Dolby Digital and MPEG audio to PCM. See also "Digital Audio".

Progressive Scan (525p/480p)

A type of display that does not split each frame into fields, and instead scans directly through all the scanlines of each frame in order. Progressive scan provides less flickering and higher image resolution than traditional (525i/480i) TV signals. Refer to page 103 for instructions on selective progressive scan mode.

Region Code

Regions associate discs and players with particular areas of the world. This unit will only play back discs that have compatible region codes. You can find the region code of your unit by looking on the rear panel. Some discs are compatible with more than one region (or all regions).

Sampling Frequency

The rate which sound is measured by a specified interval to turn into digital audio data. The numbers of sampling in one second defines as sampling frequency. The higher the rate, the better the sound quality.

SAP (secondary audio program)

Sub-audio channel which is delivered separately from main-audio channel. This audio channel is used as an alternate in bilingual broadcasting.

S-Video Output

It delivers independently each signal of color(C) and luminance(Y) to TV as video signals, so that higher-quality picture will be gained.

Title (DVD only)

A collection of chapters on DVD. See also "Chapter".

<u>Track</u>

Audio CD use tracks to divide up the content of a disc. The DVD equivalent is called a chapter. See also "Chapter".

Video CD

A digital format for store video data in compact disc.

SPECIFICATIONS

	<u> </u>		AIIONS	
General				
System		DVD+RW/+R, DV	/D-RW/-R, DVD-video, CD-DA	, Video CD, CD-RW/-R
Power requ	uirements	120V AC +/-10%	, 60Hz +/-5%	
Power con		33W (standby: 5.	.5W)	
	s (width x height x depth)		⁷ / ₁₆ inches (420 x 59 x 290m	ım)
Weight	- (7.5 lbs. (3.4kg)		,
	temperature	41°F (5°C) to 104	°F (40°C)	
Operating			no condensation)	
TV format	numany	ATSC / NTSC-M 1	· ·	
		ATSC / NTSC-MT	v stanuaru	
Recording Recording		+VR (video recor	iding) format	
5			, DVD+Recordable	
Recording	discs		DVD-Recordable (+VR mode	onlv)
Video reco	ording format	212		
Sampling f		13.5 MHz		
Compressi		MPEG 2		
Audio reco	ording format			
Sampling f		48 kHz		
Compressi	on format	Dolby Digital		
Tuner				
Tuning sys ⁻	tem	Channel frequen	cy synthesized tuning syster	n
Channel co	overage (ATSC / NTSC)		<u> </u>	
Ferrestrial	j,	VHF 2~13, UHF 1	VHF 2~13, UHF 14~69	
CATV		2~13, A~W, W+1~W+94 (analog W+1~W+84), A-5~A1, 5A		
Ferminals				
Audio i	input			
RCA jac		2V rms (input im	pedance: more than $22k\Omega$)	
Video i RCA jac				
		1Vp-p (75Ω)		
S-video	N 4-pinx1	Y: 1Vp-p (75Ω)	C: 286mVp-p (75Ω)	
	HF/CATV input and output	1. TVp-p (7522)	C. 280(110)-p (7522)	
F-type		75Ω unbalanced		
Audio i	input			
RCA jac	k x 2	2V rms (input im	pedance: more than 22kΩ)	
Audio				
RCA jac		2V rms (output i	mpedance: more than $1k\Omega$)	
Video i		A) (750)		
RCA jac		1Vp-p (75Ω)		
Video d RCA jac	σατρατ Ι κ ν 1	1Vp-p (75Ω)		
S-video		ivμ-μ (732)		
	N 4-pin x 1	Y: 1Vp-p (75Ω)	C: 286mVp-p (75Ω)	
	output			
	N 4-pin x 1	Y: 1Vp-p (75Ω)	C: 286mVp-p (75Ω)	
	nent video output	· · · ·		
		Y: 1Vp-p (75Ω)	Рв/Св: 700mVp-p (75Ω)	Pr/Cr: 700mVp-p (75Ω
RCA jac				
RCA jac	l digital audio output	500mVp-p (75Ω)		

• The specifications and design of this product are subject to change without notice.

Español

ESPAÑOL

Discos Reproducibles

Este aparato es compatible con la reproducción de los siguientes discos y archivos.

Discos reproducibles	Logo	tipos
DVD-video	VIDEO	
DVD+RW	DVD+F	eWritable
DVD+R		VU-R
DVD-RW (Sólo discos en modo de video finalizados)		
DVD-R (Sólo discos en modo de video finalizados)	R	
CD-DA (CD de audio)		
CD de video		VIDEO CD
CD-RW	COMPACT DIGITAL AUDIO ReWritable	(ReWritable)
CD-R	COMPACT DIGITAL AUDIO Recordable	COMPACT CISC Recordable
Archivos reproducibles	Ме	dio
MP3	- (D P	W/-R
-	- -	vv/=n

es una marca registrada de

DVD Format/Logo Licensing Corporation.

Códigos de Región

JPEG

El número presente en el interior el globo se refiere a una región del mundo.Este aparato puede reproducir discos DVD que estén rotulados para ALL las regiones o para la región 1.



Disco Grabable

Este aparato puede grabar a DVD+RW, DVD+R, DVD-RW y DVD-R.

Los discos DVD+R/DVD-R pueden ser grabados sólo una vez. Los discos DVD+RW/DVD-RW pueden ser grabados y borrados muchas veces.

En este aparato los discos DVD-RW/-R serán grabados automáticamente en el modo DVD+VR.

Logotipo		Atributos
RU DVD+ReWritable	RU DVD+R	Disco de 8 cm / 12 cm, un solo lado,
DVD+RW	DVD+R	una sola capa
	R	Tiempo de grabación máx. aprox. (modo SLP): 360 minutos (4,7 GB) (para 12 cm) 108 minutos (1,4 GB) (para 8 cm)
DVD-RW	DVD-R	

 Los siguientes discos se recomiendan para obtener una buena calidad de grabación y han sido comprobados como compatibles con este aparato. Sin embargo, según sea la condición del medio el equipo podría no leer el disco correctamente.

Verbatim	DVD+R 8x,	DVD+RW 4x,
	DVD-R 8x,	DVD-RW 2x
JVC	DVD-RW 4x	
Maxell	DVD+R 4x/8x/16x,	DVD-R 8x/16x
SONY	DVD+R 4x/8x/16x,	DVD+RW 4x
TDK	DVD+R 4x/8x/16x	

El comportamiento de cualquier otro disco no está garantizado.

 Usted puede reproducir discos DVD+RW en la mayoría de los reproductores de DVD sin finalizarlos.
 Sin embargo, si usted ha añadido o eliminado capítulos, u ocultado capítulos, debe ejecutar "Compatibilizar edic." antes de poder ver dichos efectos en otros equipos. (Consulte la página 91.) Para reproducir discos que no sean DVD+RW en otros reproductores de DVD, usted necesitará finalizarlos.

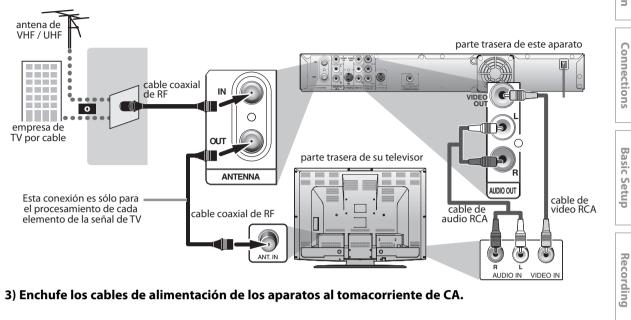
Disco no Grabable

- Un DVD-RW grabado en un modo distinto de +VR no será grabable en este aparato a menos que usted borre todo el contenido del disco. (Consulte la página 90.)
- Un DVD-R grabado en un modo distinto de +VR no será grabable en este aparato.

Conexión Básica

1) Desconecte el cable de alimentación de su televisor del tomacorriente de CA.

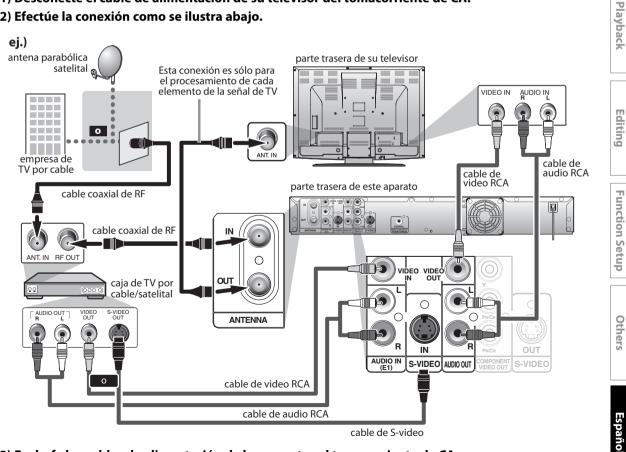
2) Efectúe la conexión básica ilustrada más abaio.



Conexión a Una Caja de TV por Cable / Satelital

1) Desconecte el cable de alimentación de su televisor del tomacorriente de CA.

Efectúe la conexión como se ilustra abajo.



3) Enchufe los cables de alimentación de los aparatos al tomacorriente de CA.

Configuración Inicial

Cuando usted encienda este aparato por primera vez necesita seguir estos pasos.



Presione [STANDBY-ON එ].

Encienda el televisor. Seleccione la entrada a la cual está conectado el aparato.

2

Utilice [▲ / ▼] para seleccionar su idioma deseado, y luego presione [OK] para establecerlo.



3

1

Utilice $[\blacktriangle / \forall]$ para seleccionar el tipo de señal de emisión, y luego presione [OK].

iuste inio	cial	
	Ajuste de Canal	
	Verificar que la antena esté	
	conectada a la toma "ANTENNA IN".	
	Antena	
	Cable (Analógico)	
	Cable (Analógico/Digital)	

El equipo comenzará a obtener los canales disponibles en su región.

Utilice [◀/▶] para seleccionar un elemento a configurar, y utilice [▲ /▼] para seleccionar el contenido de su preferencia, y luego presione [OK].

Ajuste inicial			
	_		
Ajste Manual de Reloj			
ENE / 01 / 2007 (LUN) 12 : 00 AM			

Grabación Básica

Si usted está reproduciendo los títulos de una unidad de disco rígido, presione primero [HDD] y luego continúe al paso 2. Si usted está reproduciendo los títulos de un DVD, presione primero [DVD].

Presione [OPEN/CLOSE ▲] para abrir la bandeja de discos e insertar su disco con el rótulo aupntando hacia arriba.



* Asegúrese de que el disco sea compatible con este aparato. (Para obtener la lista de discos compatibles consulte la página 37.)



Para seleccionar un modo de grabación presione [REC MODE].

Modo de grabación	Tierr	Tiempo de grabación		Calidad del video y el sonido
	Disco de 8 cm	Disco de 12 cm	HDD (interno)	
HQ	18 min	60 min	15 hrs	Buena
SP	36 min	120 min	30 hrs	
SPP	45 min	150 min	37.5 hrs	
LP	54 min	180 min	45 hrs	
EP	72 min	240 min	60 hrs	♦
SLP	108 min	360 min	90 hrs	Deficiente



Seleccione un canal externo de entrada adecuado presionando [SOURCE] o [CHANNEL + / -]. Presione [DTV/TV] para seleccionar TV analógica o TV digital, luego y utilice [CHANNEL + / -] o [los botones numéricos] para seleccionar un canal que se desee grabar. Consulte "Switching Analog Mode/Digital Mode"

Consulte "Switching Analog Mode/Digital Mode y "Channel Selection" en la página 31.



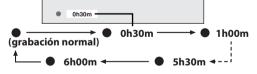
Presione [REC ●] para iniciar la grabación.

Para configurar la grabación a un toque con temporizador (OTR)...

Esta es una manera sencilla de configurar el tiempo de grabación en bloques de 30 minutos.

Presione [**REC** ●] repetidamente hasta que aparezca en la pantalla del televisor la longitud deseada de grabación (30 minutos a 6 horas).

Comenzará la grabación a un toque con temporizador.



Para cambiar la duración de la grabación durante la grabación a un toque con temporizador:

Presione **[REC ●]** repetidamente hasta que aparezca la duración deseada.

Para cancelar la grabación a un toque con temporizador dentro del tiempo especificado: Presione [STOP ■].

Para de tener la grabación presione [STOP ■].

FSPAÑOL

Copiado Básica

Preparación para el copiado (unidad de disco rígido a DVD):

• Inserte un DVD grabable.

Preparación para el copiado (DVD a unidad de disco rígido):

• Inserte un disco a ser copiado.

Presione [SETUP] en el modo de detención.

Utilice [▲ / ▼] para seleccionar "Doblaje", y luego presione [OK].

Unidad de disco rígido a DVD

Utilice [▲ / ▼] para seleccionar "HDD DVD", y luego presione [OK].

DVD a Unidad de disco rígido

Utilice [▲ / ▼] para seleccionar "DVD ➡ HDD", y luego presione [OK].

3000 M

L	ĺ	

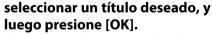
Te HDD ⇒ DVD

Añadi

Utilice [▲ / ▼] para seleccionar "Añadir", y luego presione [OK].

1/1 Utilice $[\blacktriangle / \bigtriangledown / \Huge{l} / \mathclose{l}]$ para

Lista doblaje



El título estará ahora registrado en la lista de títulos copiados.

este aparato. (Para obtener la lista de discos

compatibles consulte la página 58.)



Repita los pasos 4 y 5 hasta que registre todos los títulos a ser copiados.

Luego de añadir todos los títulos que desea, utilice $[\blacktriangle / \nabla]$ para seleccionar "Inic de doblaje" en el menú de copiado, y luego presione [OK].



Utilice [< / >] para seleccionar un modo de grabación deseado, y luego presione [OK].

Seleccione REC MODE. Alto HQ SP SPP LP EP SLP Auto
Doblando títulos 500 MB



Utilice [▲ / ▼] para seleccionar "Sí", y luego presione [OK].

El copiado comenzará. Para detener el copiado en curso: Presione [STOP] en el panel frontal.

Copiado a un toque.....

Con el copiado a un toque, usted puede comenzar a copiar de inmediato con sólo un toque. Para copiar el contenido de un DVD que está finalizado en otro equipo, utilice esta función.

Durante la reproducción del título que desea copiar, presione [D.DUBBING].

Si usted está reproduciendo un DVD, el copiado del DVD a la unidad de disco rígido comenzará de inmediato. Si usted está reproduciendo una unidad de disco rígido, el copiado de la unidad de disco rígido al DVD comenzará de inmediato.

- El copiado comenzará desde el comienzo del título que está siendo reproducido.
- El aparato sólo copiará el título que está siendo reproducido.
- Cuando se copia de una unidad de disco rígido a un DVD, el modo de grabación será configurado automáticamente a "Alto" cada vez que se satisfagan las condiciones (consulte la página 49). De lo contrario, será aplicado automáticamente el último modo de grabación seleccionado.

Para detener el copiado en curso: Presione [STOP] en el panel frontal.

Reproducción directa

Si usted está reproduciendo los títulos de una unidad de disco rígido, presione primero [HDD] y luego continúe al paso 2. Si usted está reproduciendo los títulos de un DVD, presione primero [DVD].

Presione [OPEN/CLOSE] para abrir la bandeja de discos e insertar su disco con el rótulo aupntando hacia arriba. * Asegúrese de que el disco sea compatible con



Para iniciar una reproducción presione [PLAY].



Para detener momentáneamente la reproducción presione [STOP] una vez.

Introductior

Recording

Function Setup

Others

MAGNAVOX LIMITED WARRANTY

FUNAI CORP. will repair this product, free of charge in the USA in the event of defect in materials or workmanship as follows:

DURATION:

- **PARTS:** FUNAL CORP. will provide parts to replace defective parts without charge for one (1) year from the date of original retail purchase. Certain parts are excluded from this warranty.
- **LABOR:** FUNAI CORP. will provide the labor without charge for a period of ninety (90) days from the date of original retail purchase.

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This warranty shall not be extended to any other person or transferee.

This warranty is void and of no effect if any serial numbers on the product are altered, replaced, defaced, missing or if service was attempted by an unauthorized service center. This limited warranty does not apply to any product not purchased and used in the United States.

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THE PRODUCT MUST BE ACCOMPANIED BY A COPY OF THE ORIGINAL RETAIL PURCHASE RECEIPT. IF NO PROOF OF PURCHASE IS ATTACHED, THE WARRANTY WILL NOT BE HONORED AND REPAIR COSTS WILL BE CHARGED.

IMPORTANT:

THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE. IF, AT ANY TIME DURING THE WARRANTY PERIOD, YOU ARE UNABLE TO OBTAIN SATISFACTION WITH THE REPAIR OF THIS PRODUCT, PLEASE CONTACT FUNAI CORP.

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To obtain warranty service, you must take the product, or deliver the product freight prepaid, in either its original packaging or packaging affording an equal degree of protection, to any AUTHORIZED SERVICE CENTER. FUNAI CORP. will not reimburse you for any service done by unauthorized service providers without prior written approval.

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